

3 April 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. Michael Tovey

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and
Ancillary Buildings and Facilities
Quarterly EM&A Report No.6 for December 2016 to February 2017**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.6 for December 2016 to February 2017 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0222/2017/C" dated 3 April 2017) and provided to us via e-mail on 3 April 2017.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Section 16.4.1 of the Updated EM&A Manual (2011).

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Date 03 April 2017
Our Ref. MCL/ED/0222/2017/C

Ramboll Environ Hong Kong Limited
(formerly ENVIRON Hong Kong Limited)
21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for December 2016 to February 2017
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for December 2016 to February 2017 (Rev.1) for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/jt

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Patrick Ko
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0739

QUARTERLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)

December 2016 to February 2017

Client: China Harbour Engineering Co., Ltd.

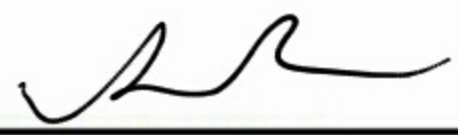
Project: Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities -
Vehicle Clearance Plazas and
Ancillary Buildings and Facilities

Report No.: 0165/15/ED/0739

Prepared by: Jamie Tam

Reviewed by: Bong Yu

Certified by:


Arthur Cheng
Environmental Team Leader

Report No.: 0165/15/ED/0739

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Report No.: 0165/15/ED/0739

EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities” (includes the construction works of Contract No. HY/2013/06 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System” within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contract”) for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contractor”) and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities” (HZMB HKBCF) Project which is a “Designated Project” under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

MaterialLab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract. This is the 6th Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 01 December 2016 to 28 February 2017 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 01 December 2016 to 28 February 2017) (the “reporting period”).

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 “Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works” and Contract No. HY/2011/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF”. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO’s final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

Environmental Site Inspection:

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- 02, 08, 15, 22 and 29 December 2016
- 05, 12, 20 and 26 January 2017
- 02, 09, 16 and 24 February 2017

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.

There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.

Complaint Log

There were two complaints received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
004	ENPO-C0107	14 December 2016	Noise
005	ENPO-C0108	28 December 2016	Hygiene on site

After investigation, it was concluded that these two complaints were not related to Contract No. HY/2013/03.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

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1. INTRODUCTION

1.1 Basic Project Information

- 1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities” (includes the construction works of Contract No. HY/2013/06 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System” within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contract”) for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contractor”) and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities” (HZMB HKBCF) Project which is a “Designated Project” under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016). The works areas of the contract are shown in **Appendix A**.
- 1.1.3 This is the 6th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 December 2016 to 28 February 2017 (from 01 December 2016 to 28 February 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) (the “reporting period”) and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

1.2 Project Organisation

- 1.2.1 The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1** and **Table 1.2**.

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Table 1.1 Contact Information of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

Table 1.2 Contact Information of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

1.3 Construction Programme

- 1.3.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are provided in **Appendix C**.

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1.4 Construction Works undertaken during the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:

For Contract No. HY/2013/03

December 2016

1. Site Investigation at Portion G & N;
2. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
3. Piling at Portion C, STP, Area G (Bridge A1 & A9), Box Culvert B & C;
4. CUE Construction at Portion B, C & J;
5. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
6. Radiation Screen Wall and Sign Gantry Footing at Portion B, E P, N;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert D at Portion A1; Shuttle kiosk & Subway at Portion; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

January 2017

1. Site Investigation at Portion G & N;
2. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
3. Piling at Portion C, STP, Area G (Bridge A1 & A9), Box Culvert B & C;
4. CUE Construction at Portion B, C & J;
5. Drainage & Sewerage Work at Portion B, H1, H2, J, P, G & A1;
6. Radiation Screen Wall and Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert D at Portion A1; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

February 2017

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The "Material" part is in a lighter weight, and the "Lab" part is in a bolder weight. The logo is set against a background of three horizontal black bars.

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8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert D at Portion A1; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

December 2016

1. Concealed Conduit works at CUE Vehicle Kiosk.

January 2017

1. Installation of conceal conduit at Building 009, 027, 028, 029.

February 2017

2. Installation of conceal conduit at Building 009, 027, 028, 029.

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2. EM&A REQUIREMENTS

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

- (1) The ET of this Contract should conduct impact air quality monitoring at the AMS listed in the table as part of EM&A programme according to latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (3) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.

2.3 Action and Limit Levels

2.3.1 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in **Table 2.2** and **Table 2.3** respectively.

Table 2.2 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	360	500
AMS7	370	

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Table 2.3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	173	260
AMS7	183	

2.3.2 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.3.3 The Action and Limit Levels for construction noise are defined in **Table 2.4**.

Table 2.4 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time Period 0700-1900 hrs. on Normal Weekdays		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period.

2.3.4 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.4 Event and Action Plans

2.4.1 The event and action plans for air quality and noise are provided in **Appendix D**.

2.5 Mitigation Measures

2.5.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

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3. ENVIRONMENTAL MONITORING AND AUDIT

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for December 2016, January 2017 and February 2017) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for December 2016, January 2017 and February 2017) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

- 3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for December 2016, January 2017 and February 2017) prepared for Contract No. HY/2010/02.
- 3.2.2 No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

3.3 Water Quality Monitoring Results

- 3.3.1 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 3.3.2 The ET of the Contract is required to conduct impact water quality monitoring as part of EM&A programme if water quality monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO and EPD agreement on the contract specific water quality monitoring works at least a month before the commencement of any marine works.

3.4 Ecology Monitoring Results

- 3.4.1 There was no marine works conducted, which impacted to the ecology during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 3.4.2 The ET of the Contract is required to conduct ecology monitoring as part of EM&A programme if ecology monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO, AFCD and EPD agreement on the contract specific marine ecology monitoring works at least a month before the commencement of any marine works.

3.5 Implementation of Environmental Measures

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- 3.5.1 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.
- 3.5.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.
- 3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge, tug boat and floating concrete batching plant on the implementation of RMTRP from December 2016 to February 2017 were checked by ET. Marine traffic records of December 2016, January 2017 and February 2017 were provided by Contractor to ER, IEC/ENPO for checking within the month of January 2017, February 2017 and March 2017 respectively. The implementation of marine traffic follows the Regular Marine Travel Route Plan with respect to ET's checking on the marine traffic records for the reporting period.
- 3.5.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, one floating concrete batching plant was operated on-site during the reporting period.

3.6 Advice on the Solid and Liquid Waste Management Status

- 3.6.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical means, the disposal operation is managed by one contractor who is also responsible for applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).
- 3.6.3 The barge for disposal of marine sediment was moored at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.
- 3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit

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holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project are the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period and Mud Pit CMP Va and the Mud Pit CMP2 of the Confined Marine Sediment Disposal Facility to the South of the Brothers from 01 December 2016 to 29 December 2016.

- 3.6.5 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site during this reporting period. The summary of marine sediment disposed during this reporting period is shown in the following table:

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in '000m ³)			
	HY/2013/02	HY/2013/03	HY/2013/04	Total
Dec 2016	1.568	4.960	2.538	9.066
Cat L in Dec 2016	0.000	2.792	3.570	6.362
Jan 2017	0.000	0.656	6.552	7.208
Feb 2017	0.088	0.264	1.380	1.732
Total	1.656	8.672	14.04	24.368

- 3.6.6 The summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is detailed in **Appendix G**.
- 3.6.7 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

3.7 Environmental Licences and Permits

- 3.7.1 The valid environmental licences and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix H**. The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

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4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION**4.1 Summary of Exceedance of the Environmental Quality Performance Limit**

- 4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for December 2016, January 2017 and February 2017) prepared by Contract No. HY/2011/03.
- 4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.1.4 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported.
- 4.1.5 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

- 4.2.1 There were two complaints received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 4.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix I**.

Table 4.1 Summary of Environmental Complaints for the Reporting Period

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
004	ENPO-C0107	14 December 2016	Noise
005	ENPO-C0108	28 December 2016	Hygiene on site

(a) 14 December 2016 (Log No. 004)

The complaint was received by EPD from a member of the public who lived in Seaview Crescent on 13 December 2016 complained about hammering noise and noise created by impacting metals or metal/ground that possibly came from construction site's operation overnight during the reporting period. After investigation, it was concluded that the complaint was not related to the construction site activities of Contract No. HY/2013/03. Nevertheless, the contractor had been reminded to complying with the specific CNP for overnight operation and reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

- Construction Noise (air borne):
 - N1: Use of good site practices to limit noise emissions: machines and plants (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and
 - N5: sequencing operation of construction plants where practicable.

(b) 28 December 2016 (Log No. 005)

The complaint was received by Highways Department from a member of the public on 28 December 2016 complained that there were many problems observed at the construction site of HZMB artificial island of Lantau. The complainant specified that mosquito breeding problem within the construction site was severe. Toilet's hygiene was poor and lack of flushing facilities, which were belonged to CHEC's construction site during the reporting period. After investigation, it was concluded that the complaint was not related to the construction site activities of Contract No. HY/2013/03. Nevertheless, the contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

- Waste Management (Construction Waste)
WM4: Sewage
Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.

4.2.2 No notification of summons or prosecutions was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.

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5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Comments

5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

For Contract No. HY/2013/03

- CHEC was reminded to remove stagnant water accumulated on site, especially at CUE works area and Building 037.
- CHEC was reminded to remove general refuse accumulated on site, especially at CUE works area, STP works area, A2 Bridge, Box Culvert B, Building 026, 037, 049 and 057.
- CHEC was reminded to provide drip trays for chemical containers at Building 035 and STP works area.
- CHEC was reminded to remove stagnant water accumulated at the beams at 035 Building.
- CHEC was reminded to increase watering for dust suppression at STP works area and CUE works area.
- CHEC was reminded to provide drip trays for generators and air compressors at STP works area.
- CHEC was reminded to remove stagnant water accumulated at trays at CUE works area, STP works, Building 039 and 049.
- CHEC was reminded to remove food waste on site, especially at Building 037 and 040.
- CHEC was reminded to improve housekeeping at CUE works area and STP works area.
- CHEC was reminded to remove chemical containers at STP works area.
- CHEC was reminded to provide maintenance for a generator in A8 Bridge which emitted smoke.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

- No recommendation.

5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

5.2 Recommendations

5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.

5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

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- 5.3.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015 and the construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 and the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). This is the 6th Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 December 2016 to 28 February 2017 (includes the findings of EM&A activities conducted under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area from 01 December 2016 to 28 February 2017).
- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for December 2016, January 2017 and February 2017) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.
- 5.3.6 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.
- 5.3.7 Environmental site inspection was carried out on 02, 08, 15, 22 and 29 December 2016, and 05, 12, 20 and 26 January 2017, and 02, 09, 16 and 24 February 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area). Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were two complaints received in relation to the environmental impact during the reporting period. After investigation, it was found that these two complaints were not related to the Contract.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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Figure 1

Air Quality Monitoring Stations



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Figure 2

Noise Monitoring Stations



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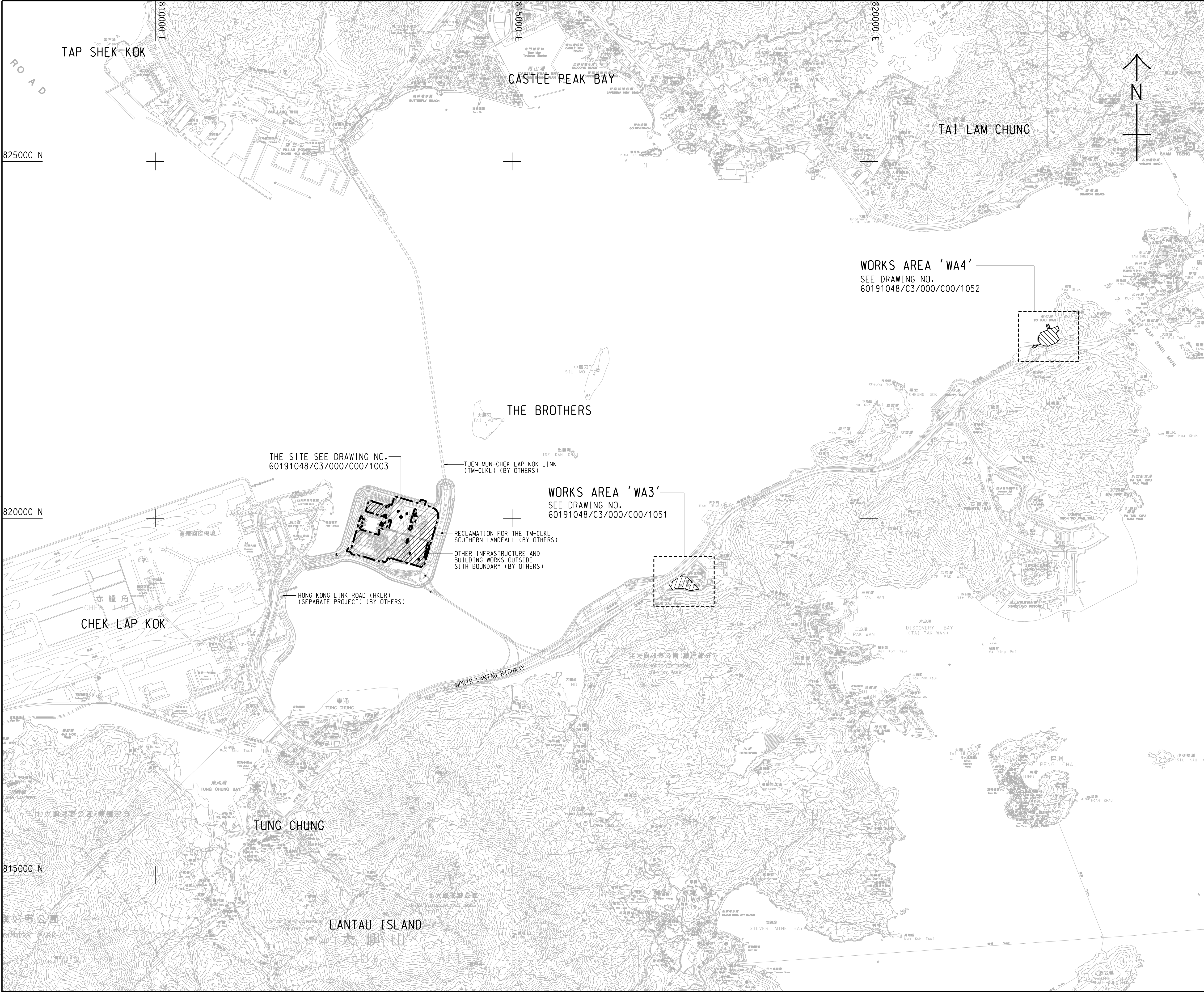
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Appendix A

Location of Works Areas



NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C3/000/C00/1051 TO 1053.

LEGEND:

- SITE BOUNDARY
- ▨ WORKS AREA

WORKS AREA 'WA4'
SEE DRAWING NO.
60191048/C3/000/C00/1052

THE SITE SEE DRAWING NO.
60191048/C3/000/C00/1003

TUEN MUN-CHEK LAP KOK LINK
(TM-CLKL) (BY OTHERS)

WORKS AREA 'WA3'
SEE DRAWING NO.
60191048/C3/000/C00/1051

RECLAMATION FOR THE TM-CLKL
SOUTHERN LANDFALL (BY OTHERS)
OTHER INFRASTRUCTURE AND
BUILDING WORKS OUTSIDE
SITH BOUNDARY (BY OTHERS)

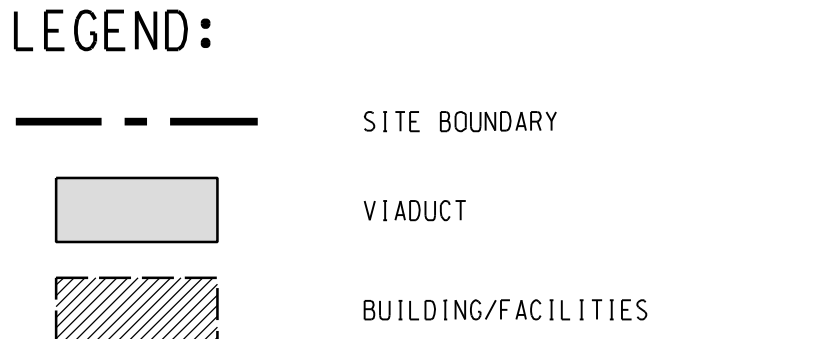
HONG KONG LINK ROAD (HKLR)
(SEPARATE PROJECT) (BY OTHERS)

- TENDER DRAWING		BWCW SCI	MAR. 14
REV.	DESCRIPTION	CHECKED	DATE
01	ISSUED FOR TENDER	01	01

路政署
HIGHWAYS DEPARTMENT
港珠澳大桥香港工程管理处
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
VEHICLE CLEARANCE PLAZAS AND
ANCILLARY BUILDINGS AND FACILITIES

SITE LOCATION PLAN

AECOM		Aedas	
Rogers Stirk Harbour + Partners			
BURO HAPPOLD	ATKINS	ADI	
DRG.NO. 60191048/C3/000/C00/1000			
圖紙編號			
DESIGNED BY 設計	BWCW	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
		HY/2013/03	TKH <i>WT</i>
DRAWN BY 繪圖	WSY	STATUS 階段	
SCALE 比例	A1 1 : 25000		
DIMENSIONS ARE IN 尺寸單位		© COPYRIGHT RESERVED	
METRES		版 權 所 有	



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SETTING OUT POINT

POINT	EASTING	NORTHING
401	822488.151	822632.315
402	822640.593	822689.415
403	822515.608	822559.848
404	822610.940	822599.642
405	822629.428	822607.359
406	822526.988	822529.813
407	822618.348	822567.950
408	822542.232	822489.581
409	822584.983	822507.426
410	822606.866	822516.561
411	822560.278	822441.956
412	822602.949	822460.010
413	822621.914	822467.959
414	822624.130	822470.998
415	822651.725	822508.856
416	822644.758	822521.192

822600 N

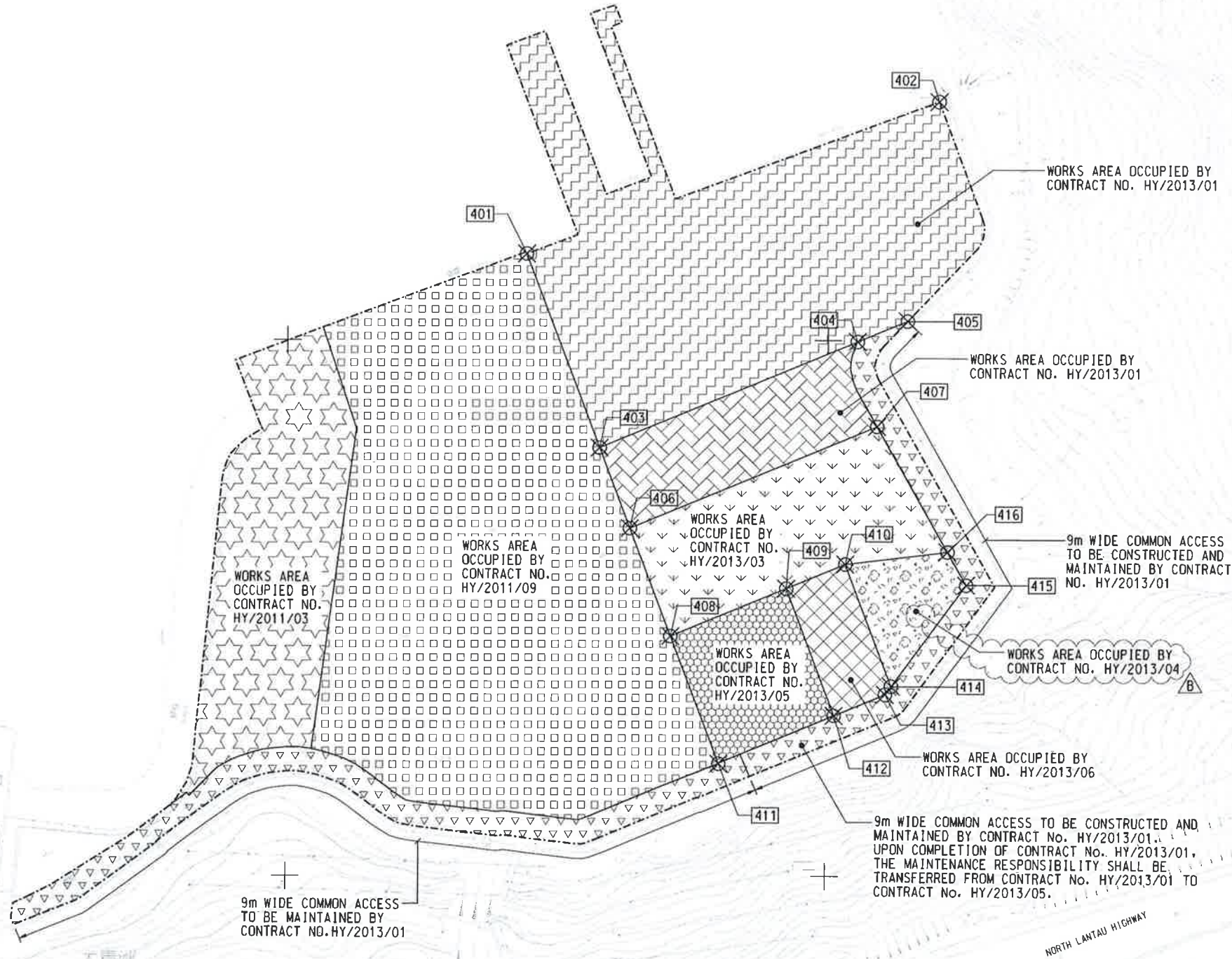
822400 N

Plot File by 2014/5/5 WANGSY

P:\PROJECTS\60191048\DRAWING\CONTRACT\C3\1000\C3_000_C00_1052.dgn

822400 E

822600 E



LOCATION PLAN
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

WORKS AREA BOUNDARY	
PORTION 4.1	
PORTION 4.2	
PORTION 4.3	
PORTION 4.4	
PORTION 4.5	
PORTION 4.6	
PORTION 4.7	
PORTION 4.8	
PORTION 4.9	

CONTROLLED DOCUMENT

FOR CONSTRUCTION

C	WORKING DRAWING	BWCW SCI MAY.15
B	TENDER ADDENDUM NO. 2	BWCW SCI MAY.14
A	TENDER ADDENDUM NO. 1	BWCW SCI APR.14
-	TENDER DRAWING	BWCW SCI MAR.14
REV. NO.	DESCRIPTION	DATE

HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG - ZHUHAI - MACAO BRIDGE PROJECT MANAGEMENT OFFICE
HONG KONG - ZHUHAI - MACAO BRIDGE PROJECT MANAGEMENT OFFICE
HONG KONG - ZHUHAI - MACAO BRIDGE PROJECT MANAGEMENT OFFICE
HONG KONG - ZHUHAI - MACAO BRIDGE PROJECT MANAGEMENT OFFICE

WORKS AREA WA4

AECOM **Aedas**
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

DRGNO. 60191048/C3/000/C00/1052C
圖紙編號

DESIGNED BY BWCW	CONTRACT NO. HY/2013/03	APPROVED BY TKH
DRAWN BY WSY	STATUS WORKING DRAWING	
SCALE A1 1 : 1000		
DIMENSIONS ARE IN METRES		

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Appendix B

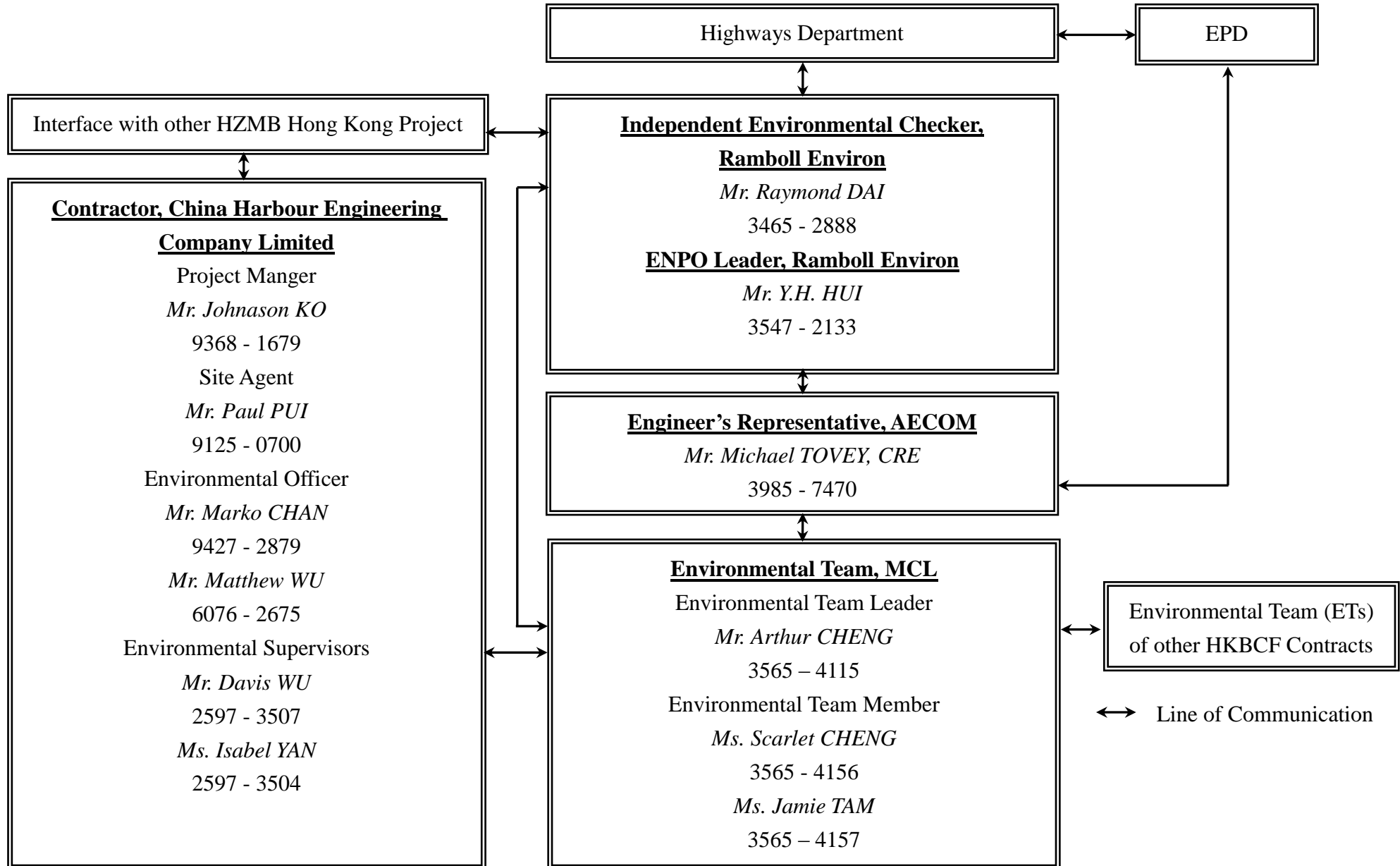
Project Organization for Environmental Works

CHINA HARBOUR ENGINEERING COMPANY LIMITED



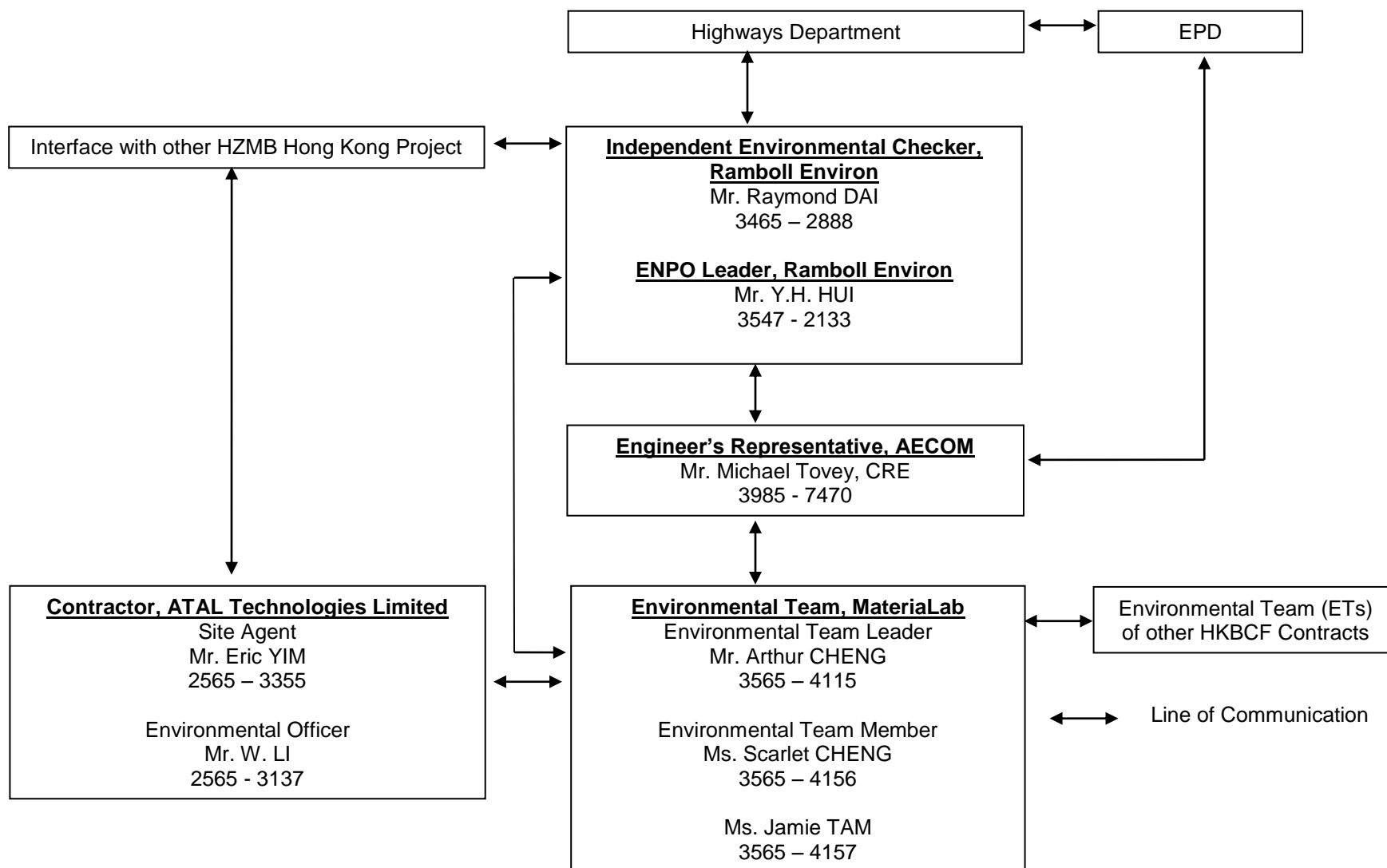
Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing
Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Projects Organization for Environmental Works



Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Projects Organization for Environmental Works



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Appendix C

Construction Programme

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities				05-Jan-17			
Activity ID	Activity Name	2016	2017				
		Dec	Jan	Feb	Mar	Apr	
HKBCF - VCP & Ancillary Buildings and Facilities, DWP Rev. 3B, DD 31 Dec. 16							
CONTRACT DATES							
Key Dates							
A1320	KD32 Achievement of Section IV(b) of the Works (646 days; 15 Jan. 17)	◆ KD32 Achievement of Section IV(b) of the Works (646 days; 15 Jan. 17)					
A1330	KD33 Achievement of Section IV(c) of the Works (646 days; 15 Jan. 17)	◆ KD33 Achievement of Section IV(c) of the Works (646 days; 15 Jan. 17)					
Site Access & Possession							
Possession of Portion of Site							
A0030	Possession of Portion B (<=100 days)	◆ Possession of Portion B (<=100 days)					
A0110	Possession of Portion J (<=320 days)	◆ Possession of Portion J (<=320 days)					
A0150	Possession of Portion N (<=345 days)	◆ Possession of Portion N (<=345 days)					
A0160	Possession of Portion P (<=502 days)	◆ Possession of Portion P (<=502 days)					
A0170	Possession of Portion Q (<=500 days)	◆ Possession of Portion Q (<=500 days)					
Access to Locations of the Site							
A0210	Contract Date for Access to Location 1.1 (490 days)	◆ Contract Date for Access to Location 1.1 (490 days)					
A0220	Contract Date for Access to Location 1.2 (405 days)	◆ Contract Date for Access to Location 1.2 (405 days)					
A0230	Contract Date for Access to Location 1.3 (488 days)	◆ Contract Date for Access to Location 1.3 (488 days)					
A0240	Contract Date for Access to Location 1.4 (488 days)	◆ Contract Date for Access to Location 1.4 (488 days)					
A0250	Contract Date for Access to Location 1.5 (580 days)	◆ Contract Date for Access to Location 1.5 (580 days)					
A0260	Contract Date for Access to Location 1.6A (700 days)	◆ Contract Date for Access to Location 1.6A (700 days)					
A0280	Contract Date for Access to Location 1.7A (610 days)	◆ Contract Date for Access to Location 1.7A (610 days)					
A0290	Contract Date for Access to Location 1.7B (610 days)	◆ Contract Date for Access to Location 1.7B (610 days)					
A0300	Contract Date for Access to Location 1.7C (610 days)	◆ Contract Date for Access to Location 1.7C (610 days)					
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)	◆ Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)					
A0320	Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)	◆ Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)					
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)	◆ Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)					
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)	◆ Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)					
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)	◆ Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)					
Section/Stage Subject to Excision							
A0770	Contract Date for Section VI (650 days, latest date when the Engineer may order)	◆ Contract Date for Section VI (650 days, latest date when the Engineer may order)					
A0780	Contract Date for Section VII (650 days, latest date when the Engineer may order)	◆ Contract Date for Section VII (650 days, latest date when the Engineer may order)					
PRELIMINARY							
Precast Yard for Bridge Segement							
A0630	Segment Manufacture						
PORTION A1							
Portion A1 Structures							
Bridge A9							
Bored Pile							
SA9120	Bored pile for A9 Bridge, 10 no.						
Pile Cap							
SA9210	Cap - A905						
SA9220	Cap - P904						
SA9230	Cap - P903						
SA9240	Cap - P902						
SA9250	Cap - A901						
Pier & Abutment							

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						05-Jan-17		
Activity ID		Activity Name	2016		2017			
			Dec	Jan	Feb	Mar	Apr	
	SA9310	Abutment A905						
	SA9320	Pier P904						
	SA9330	Pier P903						
	SA9340	Pier P902						
	SA9350	Abutment A901						
	Structure Deck							
	SA9400	Falsework for Deck A905 - P904						
	SA9410	Deck on A905, P904 + Stressing						
	SA9415	Falsework for Deck P904 - P903						
	Retaining Wall W8-1							
	SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)						
	SW8120	Backfilling W8-1						
	Retaining Wall W9-1							
	SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays)						
	SW9120	Backfilling W9-1						
	Box Culvert D							
	Box Culvert D Construction							
	SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)						
	SD0180	Box Culvert D Backfilling						
	047 - Fresh Water Pumping Station, Portion A1 & A2							
	A04750	Pump House Construction						
	049 - Sewage Treatment Plant, Portion A1 & A2							
	A04950	Sheet Piling as ELS1 for Equalization Tanks						
	A04960	Sheet Piling as ELS2 for Sludge Holding Tanks						
	B04960	ELS1 + Blinding for Equalization Tanks + Wet Well & Inlet Chamber						
	B04970	Constructing Base Slab for Equalization Tanks + Wet Well & Inlet Chamber						
	B04980	Backfilling + Removing 3rd Strut of ELS1						
	B04990	Constructing Wall Stem for Equalization Tanks						
	C04910	Water-tightness Test for Equalization Tanks						
	C04920	Backfilling + Removal of ELS1						
	C04940	Constructing Base Slab of Sludge Holding Tanks						
	C04950	Backfilling + Removal Strut of ELS2						
C04960	Constructing Wall Stem of Sludge Holding Tanks							
C04970	Water-tightness Test for Sludge Holding Tanks							
C04990	Backfilling + Removal of ELS2							
D04920	Constructing Base Slab for MBR Tanks							
D04930	Constructing Wall Stem for MBR Tanks							
D04940	Water-tightness Test for MBR Tanks							
D04950	Backfilling + Removal of ELS3							
D04960	Constructing Ground Slab for Transformer Room							
D04970	Transformer Room Construction							
D04980	BS + E&M for Transformer Room to CLP (KD7)							
D04990	Other Ground Slab Construction							
Portion A1 Buildings								
012 - DOH Disinsection Area and Store Room 1, at Portion A1								
A01250	Finishing							
A01260	BS for Office Accommodation (Stage 8) (Degree 2)							
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)							
A01280	Other BS + E&M Installation							
Test & Commission								

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Activity ID		Activity Name	2016		2017			
			Dec	Jan	Feb	Mar	Apr	
	C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
036 - Weigh Station								
A03650	Ceiling/Wall Plaster & Painting							
A03660	Floor Screed							
A03665	External Wall Plaster & Tile							
A03670	BS for Office Accomodation (Stage 8)							
A03680	BS + E&M for Office Accommodation (Stage 9)							
A03690	Other BS + E&M Installation							
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)								
A03740	Steel Frame Structure Installation							
A03742A	Mock-up Sample for Curtain Wall							
A03742B	Mock-up Sample for Cladding							
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade							
A03742E	Mock-up Sample for Toilet Counter Top (WF24)							
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation							
A03746	Blockwall Laying							
A03748	Wall/Ceiling Plastering/Tiling							
A03752	Floor Screed/Tiling							
A03756	Window/Door Frame Installation							
A03760	BS + E&M for AVCSS Cabling (KD18A)							
A03770	BS + E&M for AVCSS Cabling (KD18B)							
A03780	BS for Office Accomodation (KD9)							
A03785	BS for Office Accomodation (KD10)							
A03790	Other BS + E&M Installation							
Test & Commission								
B03790	Beam Plus Monthly Submission & Issue							
041 Fire Station Cum Ambulance Depot								
A04120	Superstructure, G/F to 1/F							
A04122	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)							
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)							
A04132	Blockworks							
A04133	Ceiling & Wall Plastering/Wall Tiling							
A04134	Floor Screeding/Tiling/Vinyl Tiles							
A04135	Ceiling/Wall Painting							
A04136	Carpentry (Door, Fabric Wall Panel, Movable/Folding Partition)							
A04137	False Ceiling Installation							
A04140	BS for Office Accomodation (Stage 8)							
A04160	Other BS + E&M Installation							
Test & Commission								
B04120	Submission & Issue of WW046 I, II, III (Inside Services & FS)							
042 Drill Tower								
A04260	Finishing							
A04270	BS for Office Accomodation (Stage 8)							
A04280	BS + E&M for Office Accomodation (Stage 9)							
A04290	Other BS + E&M Installation							
Test & Commission								
B04220	T&C for BS Pumps							
043 DOH Office + Store Room								
A04330	Superstructure							
A04340	Water Tanks for F.S./Sprinkler Pump Room							

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	A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					
	A04380	BS for Office Accomodation (Stage 8)					
	B04310	Other BS + E&M Installation					
	B04330	Stainless Steel Mesh Installation					
	B04340	Metal Windows/Louvres/Doors/Railing etc. installation					
	B04350	Blockworks					
	B04360	Wall Plastering/Tiling					
	C04310	C/S Wall Plastering					
	052 - Transforms (Zone 4)						
A05235	Energisation by CLP						
A05250	Ceiling/Wall Painting Finish & Floor Screed						
A05260	External Wall Plaster & Wall (KD10)						
A05270	Main Switch/L.V. Switch Board Installation						
A05280	Genset Installation						
T&C and Statutory Inspection							
B05210	T&C for BS & Pumps						
B05220	DG application						
B05240	EPD Generator Set Emission Application						
B05270	Non-Essential T&C (Non-FSI)						
B05280	OP Application & TPIDC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
C05210	Approved Building Plans						
105 IMMD Guard Booth, Portion A1 (Mock Up)							
B10500	Shop Drawings & Material Submission						
B10510	Excavation + Blinding						
B10520	Substructure (Raft Foundation)						
B10530	On Grade Ground Slab						
Facade Envelop Structure Installation							
B10580	Shop Drawing Submission and Approval						
B10590	Fabrication of F/C System						
External Works for Portion A1							
Drainage Works							
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)						
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)						
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)						
Waterpipe Laying							
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)						
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)						
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)						
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5270	Duct & Cable Laying for TCSS & Lighting						
PORTION A2							
Portion A2 Structures							
046 - Refuse Collection Point, Portion A2							
A04610	Raft Foundation						
A04620	Superstruncture w/2 water tank						
Test & Commission							
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)						

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048 - Reclaimed Water Pumping Station, Portion A2						
A04830	Sheet Piling as ELS for Basement 1					
A04840	Pile testing					
A04850	Excavation + Blinding for Basement 1					
A04860	Basement 1 Construction					
A04865	Water-tightness Test for Basement 1					
A04867	Backfilling + Removal of ELS					
A04870	Basement 2 Construction					
A04880	Water-tightness Test for Basement 2					
Retaining Wall W9-2						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
External Works for Portion A2						
Drainage Works						
ED2280	Drainage Works (114m & 8MHs), Stage 1 (Eastern)					
ED3560	Sewerage (161m & 5MHs), Stage 1 (Eastern)					
PORTION B						
Portion B Structures						
Retaining Wall W7-2						
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)					
S70890	Retaining Wall W7-2 Backfilling					
Retaining Wall W6-1						
S62050	Construction of Retaining Wall W6-1 (L-shape, 4 bays)					
S62060	Retaining Wall W6-1 Backfilling					
Bay 4 - 19 of CUE/Staff Subway						
C02760	Internal Finishes & Cable Containment (KD1)					
C02770	BS + E&M Installation for AVCSS (Stage 1)					
C02780	Allow Access to C1 for Chilled Water Pipe (CUE) installation					
Bay 20 - 24 of CUE/Staff Subway						
C02820	Bay 20 - 24 Construction - Base Slab					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
C02840	Internal Finishes & Cable Containment (KD1)					
C02850	BS + E&M Installation for AVCSS (Stage 1)					
Bay 25 - 29 of CUE/Staff Subway						
C02920	Bay 25 -29 Construction - Base Slab					
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
Portion B Buildings						
027/028 Inbound Kiosks & 029 Outbound Kiosks						
A02710	Pre-fabrication for the Steel Kiosks					
A02715	Mock up for Steel Kiosks					
A02718	Mock up for Goods Vehicle Canopy					
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02750	Finishing					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
B02720	Other BS + E&M Installation					
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision						

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	B02740	Pre-fabrication for the Steel Kiosks					
	B02750	Superstructure					
	B02760	BS + E&M for AVCSS Works (KD18C)					
026 Inbound IMMD and DOH Secondary Screening Building							
A02630	Superstructure						
A02640	Finishing						
A02650	Contractor's Design Submission for SS Mesh Screen & Approval						
A02660	Contractor's Design Submission for Aluminium Cladding & Approval						
A02670	BS for Office Accomodation (Stage 8)						
A02690	Other BS + E&M Installation						
Test & Commission							
B02620	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
054 Inbound Fixed X-ray Building							
A05460	Finishing						
A05467	Energisation by CLP						
A05470	BS for Office Accomodation (Stage 8)						
A05480	BS + E&M for Office Accomodation (Stage 9)						
A05490	Other BS + E&M Installation						
B05410	Lift Installation						
Completion of Fire Services Installation and Equipment (FCD)							
F05440	Approved Building Plans						
Waterworks Ordinance (WSD)							
G05410	Approval Letter and approved Drawings						
038 AFCD Office							
A03830	Superstructure; G/F to 1/F						
A03840	Superstructure; 1/F to 2/F (incl. parapet and planter wall)						
A03850	Finishing + Curtain Wall Installation						
A03870	BS for Office Accomodation (Stage 8)						
A03890	Other BS + E&M Installation						
Test & Commission							
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03880	Form 314 & 501 submission						
C03810	DG application						
C03820	Form 2 Submission						
039 Police Main Building							
A03930	Superstructure; G/F to 1/F						
A03935	Superstructure; 1/F to 2/F (incl. parapet and planter wall)						
Test & Commission							
B03950	Beam Plus Monthly Submission & Issue						
040 Incident Control Tower							
A04040	Superstructure						
A04050	Finishing (KD9)						
A04060	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)						
Facade Cladding System							
B04010	Shop Drawing Submission and Approval						
B04020	Fabrication of F/C System						
Glass Wall							
C04010	Shop Drawing Submission and Approval						
C04020	Fabrication of Glass Wall						
C04030	Casted-in Items Installation						

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102 HKPF UVSS Monitor Room							
A10220	Superstructure						
A10230	Finishing (False Ceiling) (KD9)						
A10240	BS for Office Accomodation (Stage 8)						
A10270	Other BS + E&M Installation						
Metal Canopy and Roof Installation							
B10210	Shop Drawing Submission and Approval						
B10212	Fabrication of MC/R						
B10220	Casted-in Items Installation						
103 Police Inspection Post							
A10330	Raft Foundation						
A10340	Superstructure (Roof Slabs)						
A10350	Finishing (False Ceiling) (KD9)						
A10360	BS for Office Accomodation (Stage 8)						
A10380	Other BS + E&M Installation						
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						
HPL Composite Panel Cladding System							
B10310	Shop Drawing Submission and Approval						
B10320	Fabrication of HPL Cladding						
057 Transformers (Zone 2)							
A05730	Superstruncture						
A05740	Finishing						
A05750	BS + E&M for Tx Room to CLP (Stage 4)						
A05760	BS for Office Accomodation (Stage 8)						
A05770	BS + E&M for Office Accomodation (Stage 9)						
A05780	Other BS + E&M Installation						
Completion of Fire Services Installation and Equipment (FCD)							
F05740	Provision of Approved Building Plans by the Engineer						
DG License & EPD Generator Approval							
G05710	Approval Letter and approved Drawings						
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B							
C10720	Raft Foundation						
C10730	Superstructure (Roof Slabs)						
C10740	Finishing						
C10750	BS for Office Accomodation (Stage 8)						
C10770	Other BS + E&M Installation						
113 - Field Kiosk for Access Control, Portion B							
B11320	Raft Foundation						
B11330	Superstructure (Roof Beams & Slabs)						
B11340	Finishing						
B11350	BS for Office Accomodation (Stage 8)						
201 - Inbound Cargo Mobile X-ray Operation Area							
ER5740	Radiation Screen Wall Construction						
ER5850	Construction of the Area and Access to the Interface Contractor						
205 - Inbound Private Car Mobile X-ray Operation Area							
ER5750	Radiation Screen Wall Construction						
ER5860	Construction of the Area and Access to the Interface Contractor						
External Works for Portion B							
Drainage Works							
ED5650	Drainage Works (1130m & 60MHs), Stage 2						

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	ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)					
	ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)					
	ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)					
	ED5700	Sewerage (300m &82MHs), Stage 4 (N/E)					
	Waterpipe Laying						
	EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)					
	EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)					
	EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)					
	EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)					
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
	EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
	EU5310	Duct & Cable Laying for TCSS & Lighting					
	EU5630	Access date to Telephone Companies					
	Roadworks						
	ER1640	Subbase (10000 ton), Stage 1 (N/W)					
	ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)					
	ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)					
	ER5590	Subbase (11000 ton), Stage 2 (N/E)					
	ER5600	Bitumen Pavement (15000 ton), Stage 2 (N/E)					
	ER5610	Rigid Pavement (594 m3), Footpath & EVA, Stage 2 (N/E)					
	Sign Gantry ADS 306A & ADS 306B						
	ES5240	Fabrication & Delivery of Sign Gantrys to Site					
	PORTION C						
Portion C Buildings							
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
A00940	Finishing						
A00950	BS + E&M for AVCSS works (KD 1)						
A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUE)						
B00910	Substructure and Staircase Construction (Portion B&C)						
B00920	Kiosk Superstructure						
104 - DOH Secondary Screening Station, at Portion C							
Facade Cladding System							
A10460	Shop Drawing Submission and Approval						
A10465	Fabrication of F/C System						
110 IMMD Guard Booth (Type 2) East							
Facade Envelop Structure Installation							
A11040	Shop Drawing Submission and Approval						
A11045	Fabrication of F/C System						
111 Field Kiosk for Carpark Operator							
HPL Composite Panel Cladding System							
B11110	Shop Drawing Submission and Approval						
B11120	Fabrication of HPL Cladding						
External Works for Portion C							
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building							
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installation for Contract HY/2013/01						
PORTION D							

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Portion D Building													
113 - Field Kiosk for Access Control, Portion D													
C11360		Raft Foundation											
C11370		Superstructure (Roof Beams & Slabs)											
C11380		Finishing											
D11340		BS for Office Accomodation (Stage 8)											
External Works for Portion D													
Drainage Works													
SG3640		Drainage Works (361m & 14MHs)											
SG3760		Sewerage (121m & 6MHs)											
Waterpipe Laying													
SW3650		Fresh Water Main Laying (108m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5340		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
SU5350		Duct & Cable Laying for TCSS & Lighting											
SU5640		Access dates to Telephone Companies										◆ Access dates to Telephone Companies	
Works of Car Park Management System at Location 1.5, 1.6A & 1.6B													
SR5540		Works & T&C for Car Park Management System at Location 1.5											
Roadworks													
SR3740		Subbase (261 ton)											
PORTION E													
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M													
A00610		ELS + Blinding for Subway											
A00620		Constructing base of Subway											
A00630		Constructing wall stem + top slab of Subway											
A00640		Backfilling											
External Works for Portion E													
Drainage Works													
SG3780		Drainage Works (99m & 5MHs)											
SG3900		Sewerage (38m & 1 MH)											
Waterpipe Laying													
SW3790		Fresh Water Main Laying (45m)											
SW3800		Flushing Water Main Laying (25m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5360		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
SU5370		Duct & Cable Laying for TCSS & Lighting											
PORTION G, H1 & H2													
Portion G Structures													
Box Culvert C													
Steel H Pile													
SC0280		Box C - 54 nos. of driven H pile, Stage 3											
Box Culvert Structure													
SC0310		Box C - Branch Construction											
SC0320		Box C - Branch Backfilling											
SC0380		Box C - Construction of Main Body											
Bridge A1													
Pier & Abutment													
SA1310		Abutment A106											

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Structure Deck							
SA1480	Deck on P104, P105 + Stressing						
SA1490	Falsework for Deck P105,A106						
SA1510	Deck on P105,A106 + Stressing						
Bridge A3							
Pile Cap							
SA3220	Cap - P304a/b						
SA3250	Cap - A305						
Pier & Abutment							
SA3320	Pier P304a, P304b						
SA3330	Abutment A305						
Structure Deck							
SA3420	Deck on P301 - P302 + Stressing						
SA3430	Falsework for Deck P302 - P303						
SA3440	Deck on P302 - P303 + Stressing						
SA3450	Falsework for Deck P303 - P304a/P304b						
SA3460	Deck on P303, P304a/P304b + Stressing						
Bridge A4							
Pile Cap							
SA4210	Cap - P401						
SA4220	Cap - P402						
Pier & Abutment							
SA4310	Pier P401						
SA4320	Pier P402						
Structure Deck							
SA4410	Falsework for Deck P502b, P401						
SA4420	Deck on P502b, P401 + Stressing						
SA4430	Falsework for Deck P401, P402						
SA4450	Falsework for Deck P304b, P402						
SA4460	Deck on P304b, P401, P402 + Stressing						
Bridge A5							
Pile Cap							
SA5250	Cap - A501						
SA5260	Cap - P502a/b						
Pier & Abutment							
SA5330	Pier P503						
SA5360	Pier P502a/b						
SA5370	AbutmentA501						
Structure Deck							
SA5410	Falsework for Deck P504 - P505						
SA5420	Deck on P504, P505 + Stressing						
SA5430	Falsework for Deck P503 - P504						
SA5440	Deck on P503, P504, + Stressing						
SA5450	Falsework for Deck P505 - P506						
SA5460	Deck on P505, P506 + Stressing						
SA5470	Falsework for Deck P502a, P502b, P503						
SA5480	Deck on P502a, P502b & P503 + Stressing						
SA5510	Falsework for Deck P506 - P507						
SA5520	Deck on P506 & P507 + Stressing						
Bridge A6							
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div></div> Milestone</div>			<div>THREE MONTH ROLLING PROGRAMME</div> <div>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</div> <div>Page 10 of 18</div>				<div><div>Date</div><div>31-Oct-16</div><div>30-Nov-16</div><div>31-Dec-16</div></div> <div><div>Revision</div><div>3MRP updated as of 30 Oct. 2016</div><div>3MRP updated as of 30 Nov. 2016</div><div>3MRP updated as of 31 Dec. 2016</div></div> <div><div>Checked</div><div>ZJ</div><div>ZJ</div><div>ZJ</div></div> <div><div>Approved</div><div></div><div></div><div></div></div>

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						05-Jan-17		
Activity ID		Activity Name		2016		2017		
				Dec	Jan	Feb	Mar	Apr
Structure Deck								
SA6460	Deck on P603, P604 + Stressing							
SA6470	Falsework for Deck P604, P605							
SA6480	Deck on P604, P605 + Stressing							
SA6490	Falsework for Deck P605, P606							
SA6510	Deck on P605, P606 + Stressing							
SA6520	Falsework for Deck P606 - A607							
Bridge A7a, A7b, A7c								
Pile Cap								
SA7370	Cap for P703							
Pier & Abutment								
SA7560	Pier P702							
SA7570	Pier P703							
SA7580	Abutment A701							
Structure Deck								
SA7730	Falsework for Deck P705 - P706							
SA7740	Deck on P705 & P706 (Bridge A7a) + Stressing							
SA7750	Falsework for Deck P704, P705							
SA7770	Deck on P704 & P705 (Bridge A7a) + Stressing							
SA7780	Falsework for Deck P703, P704							
SA7790	Deck on P703, P704 (Bridge A7a) + Stressing							
SA7810	Falsework for Deck P702, P703							
SA7820	Deck on P702, P703 (Bridge A7 a) + Stressing							
SA7830	Falsework for Deck A701, P702							
SA7850	Falsework for Deck P707, P708 (A7c)							
SA7860	Deck on P707, P708 (Bridge A7c) + Stressing							
SA7870	Falsework for Deck P708 - P709 (A7c)							
SA7880	Deck on P708 & P709 (Bridge A7c) + Stressing							
SA7890	Falsework for Deck P709, P710 (A7c)							
SA7910	Deck on P709, P710 (Bridge A7c) + Stressing							
SA7920	Falsework for Deck P710 - A711 (A7c)							
SA7930	Deck on P710 & A711 (Bridge A7c) + Stressing							
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works							
Bridge A8								
Pier & Abutment								
SA8310	Abutment A804							
Structure Deck								
SA8410	Falsework for Deck P801, P802							
SA8420	Deck on P801, P802 + Stressing							
SA8430	Falsework for Deck P802, P803							
SA8440	Deck on P802, P803 + Stressing							
SA8450	Falsework for Deck P803, A804							
SA8460	Deck on P803, A804 + Stressing							
Retaining Walls W1-1, W3-1, W5-1 & W7-1								
Retaining Wall W1 -1								
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)							
SW1120	Retaining Wall W1 -1 Backfilling							
Retaining Wall W3-1								
SW3130	Bored Pile for W3-1, 16 Nr.							
SW3140	Pile Testing for W3-1							

Actual Work

Remaining Work

Critical

Milestone

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Activity ID		Activity Name		2016		2017							
				Dec		Jan		Feb		Mar		Apr	
	SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)											
	Retaining Wall W5-1												
	SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)											
	Portion G Buildings												
	033 Inbound Private Car Exam Building												
	A03360	External Works											
	A03370	BS for Office Accomodation (Stage 8)											
	A03380	BS + E&M for Office Accomodation (Stage 9)											
	A03390	Other BS + E&M Installation											
	C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)											
	Glass Canopy Installation												
	B03300	Shop Drawing Submission and Approval											
	B03305	Fabrication of Glass Canopy											
	B03350	Casted-in Items Installation											
	Aluminium Metal Canopy												
	B03310	Shop Drawing Submission and Approval											
	B03315	Fabrication of F/C System											
	B03320	Casted-in Items Installation											
	034 Satellite RCP South												
	A03450	Finishing											
	A03460	BS for Office Accomodation (Stage 8)											
	A03470	BS + E&M for Office Accomodation (Stage 9)											
	A03480	Other BS + E&M Installation											
	S S Facade Greenery System												
	B03410	Shop Drawing Submission for Approval											
	B03415	Fabrication of SS F/G System											
	B03420	Casted-in Items Installation											
	035 - Sewage Pumping Station, Portion G												
	A03570	Constructing of Base Slab of Wet Well											
	A03580	Constructing of Wall Stem of Wet Well											
	A03590	Water-tightness Test for Wet Wells											
	B03510	Backfilling + Removal of ELS											
	B03520	ELS + Blinding for Basement Basement											
	B03530	Constructing Base Slab of Basement											
	051 Transformers (Zone 5)												
	A05150	Finishing											
	A05165	Energisation by CLP											
	A05170	BS for Office Accommodations (KD9)											
	A05180	BS + E&M for Office Accommodation (KD10)											
	A05190	Other BS + E & M Installation											
	Completion of Fire Services Installation and Equipment (FCD)												
	F05140	Approved Building Plans											
	100 Inbound Traffic Control Kiosk												
	A10050	Finishing											
	A10070	BS + E&M for AVCSS Works (KD18A)											
	B10060	BS + E&M for AVCSS Cabling (KD18B)											
	B10070	BS for Office Accommodations (KD9)											
	HPL Composite Panel Cladding System												
	B10010	Shop Drawing Submission and Approval											
	B10015	Fabrication of F/C System											

Actual Work

Remaining Work

Critical

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Activity ID		Activity Name	2016	2017			
			Dec	Jan	Feb	Mar	Apr
112 Field Kiosk for Taxi Queuing Area							
A11230	Structure						
A11240	Finishing						
A11250	BS + E & M Installation						
A11260	T&C for BS & Pumps SWT						
A11280	OP Application & TPIDC Inspection						
External Works for Portion G, H1 & H2							
ELV Works within Portion H2 in the Hong Kong Side PTI							
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)						
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI							
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050						
Sign Gantry DS40, DS41 & DS75							
ES0020	Sign Gantry DS40 Pre-bored H Piling, 12 Nr.						
ES0040	Sign Gantry DS41 Driven Piling 4 Nr.						
ES0080	Testing for Pre-bored H Piling						
ES0180	Fabrication & Delivery of Sign Gantrys to Site						
Canopy and Covered Walkway							
CC1310	Shop drawing, Approved & Fabrication						
CC1320	Footing						
CC1330	Steel Frame Installation						
PORTION J							
Portion J Structure							
Bay 30 - 41 of CUE/Staff Subway (Portion J)							
B03040	Bay 30 - 33 Construction - Base Slab						
B03050	Bay 30 - 33 Construction - Wall + Top Slab						
B03220	Bay 34 - 39 Construction - Base Slab						
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase						
B03240	Bay 40 - 41 Construction - Base Slab						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for ACVSS (Stage 2) (KD2)						
030 Outbound Private Car & GV Kiosks							
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (Incl. Entrance & Toilet)						
030 Outbound Kiosks, Section IX, Subject to Excision							
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
Portion J Buildings							
024 Outbound Private Car Exam Building							
A02400	Excavation + Blinding (PL Test)						
A02410	Raft Foundation						
A02420	Superstructure						
Glass Canopy Installation							
B02410	Shop Drawing Submission and Approval						
B02415	Fabrication of F/C System						
Aluminium Metal Canopy							

Actual Work

Remaining Work

Critical

Milestone

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Activity ID	Activity Name	2016	2017			
		Dec	Jan	Feb	Mar	Apr
B02450	Shop Drawing Submission and Approval					
B02455	Fabrication of F/C System					
031 Outbound IMMD and DOH Secondary Screen Building						
A03110	Raft Foundation					
A03140	Superstructure					
A03150	Finishing (KD31)					
A03160	BS for Office Accommodations (KD18F)					
A03180	Other BS + E & M Installation (KD31)					
Test & Commission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
060 - Single Storey Support Building Associated with Buildings 044 & 045						
A06000	Excavation + Blinding (+ PL Test)					
A06010	Raft Foundation (Traper)					
A06020	Superstructure (Traper) Construction					
A06040	Excavation + Blinding (Strip part)					
A06045	Raft Foundation (Strip part)					
Waterworks Ordinance (WSD)						
G06020	Submission of WWO46 - Part I & II (Inside Services)					
061 Telecom Building						
A06120	Excavation + Blinding					
A06130	Raft Foundation					
A06140	Superstructure					
A06150	Finishing (KD9)					
A06160	BS for Office Accommodations (KD9)					
Aluminium Metal Canopy						
B06110	Shop Drawing Submission and Approval					
B06115	Fabrication of Aluminium Cladding					
101 Outbound Traffic Control Kiosk						
A10100	Excavation + Blinding					
A10110	Raft Foundation					
A10130	Superstructure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10190	Other BS + E & M Installation					
C10110	Submission of WWO46 - Part I & II (Inside Services)					
HPL Composite Panel Cladding System						
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
206 - Outbound Private Car Mobile X-ray Operation Area						
ER5780	Radiation Screen Wall Construction					
External Works for Portion J						
Drainage Works						
ED4220	Drainage Works (1700m & 86MHs), Stage 1 (Northern)					
ED4340	Sewerage (425m & 11MHs), Stage 1 (Northern)					
ED5710	Drainage Works (1697m & 85MHs), Stage 2 (Southern)					
ED5720	Sewerage (425m & 12MHs), Stage 2 (Southern)					
Waterpipe Laying						
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)					

Actual Work

Remaining Work

Critical

Milestone

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Activity ID		Activity Name	2016		2017			
			Dec	Jan	Feb	Mar	Apr	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						05-Jan-17							
Activity ID		Activity Name		2016		2017							
				Dec		Jan		Feb		Mar		Apr	
202 - Outbound Cargo Mobile X-ray Opeartion Area													
ER5790		Radiation Screen Wall Construction											
External Works for Portion N													
Drainage Works													
AS0150		Initial Survey											
ED4620		Drainage Works (964m & 56MHs), Stage 1 (Southern)											
ED4650		Sewerage (383m & 12MHs), Stage 1 (Southern)											
Waterpipe Laying													
EW4530		Fresh Water Main Laying (641m)											
EW4540		Flushing Water Main Laying (413m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
EU5460		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
EU5470		Duct & Cable Laying for TCSS & Lighting											
PORTION P													
Portion Structure													
Retaining Wall RW1													
RW1110		Construction of Retaining Wall RW1 (U-shape, 5 bays)											
Portion P Buildings													
105 IMMD Guard Booth, Portion P													
A10510		Excavation + Blinding											
A10520		Substructure (Raft Foundation)											
A10530		On Grade Ground Slab											
A10540		Finishing											
E10500		BS for Office Accommodations (KD9)											
E10510		BS + E&M for Office Accommodation (KD10)											
E10520		Other BS + E & M Installation											
Facade Envelop Structure Installation													
A10560		Shop Drawing Submission and Approval											
A10565		Fabrication of F/C System											
External Works for Portion P													
Drainage Works													
AS0160		Initial Survey											
ED4670		Drainage Works (2957m & 128MHs)											
ED4790		Sewerage (269m & 7MHs)											
Waterpipe Laying													
EW4680		Fresh Water Main Laying (1270m)											
EW4690		Flushing Water Main Laying (455m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
EU5640		Access dates to Telephone Companies											
Roadworks													
ER4770		Subbase (16519 ton)											
ER4800		Bitumen Pavement (23958 ton)											
ER4810		Rigid Pavement (220 m3), Footpath & EVA											
PORTION Q													
External Works for Portion Q													
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
ED5570		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
ED5580		Duct & Cable Laying for TCSS & Lighting											

Actual Work

Remaining Work

Critical

Milestone

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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31-Oct-16	3MRP updated as of 30 Oct. 2016	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						01-Feb-17						
Activity ID		Activity Name		2017								
				Jan	Feb	Mar	Apr	May				
	SA9310	Abutment A905										
	SA9320	Pier P904										
	SA9330	Pier P903										
	SA9340	Pier P902										
	SA9350	Abutment A901										
	Structure Deck											
	SA9400	Falsework for Deck A905 - P904										
	SA9410	Deck on A905, P904 + Stressing										
	SA9415	Falsework for Deck P904 - P903										
	SA9420	Deck on P904, P903 + Stressing										
	SA9430	Falsework for Deck P903 - P902										
	SA9440	Deck on P903 & P902 + Stressing										
	SA9450	Falsework for Deck P902 - A901										
	Retaining Wall W8-1											
	SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)										
	SW8120	Backfilling W8-1										
	Retaining Wall W9-1											
	SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays)										
	SW9120	Backfilling W9-1										
	Box Culvert D											
	Box Culvert D Construction											
	SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)										
	SD0180	Box Culvert D Backfilling										
	047 - Fresh Water Pumping Station, Portion A1 & A2											
	A04740	Water Tank Construction										
	A04750	Pump House Construction										
	A04752	Water-tightness Test for Water Tank										
	A04760	Parapet Wall at Roof Slab & Fiishing										
	A04770	BS for Office Accommodations (Stage 8) (Degree 2)										
	Test & Commission											
	B04720	Submission & Issue of WW046 I, II, III (Inside Services & FS)										
	049 - Sewage Treatment Plant, Portion A1 & A2											
B04960	ELS1 + Blinding for Equalization Tanks + Wet Well & Inlet Chamber											
B04970	Constructing Base Slab for Equalization Tanks + Wet Well & Inlet Chamber											
B04980	Backfilling + Removing 3rd Strut of ELS1											
B04990	Constructing Wall Stem for Equalization Tanks											
C04910	Water-tightness Test for Equalization Tanks											
C04930	ELS2 + Blinding for Sludge Holding Tanks											
C04940	Constructing Base Slab of Sludge Holding Tanks											
C04950	Backfilling + Removal Strut of ELS2											
C04960	Constructing Wall Stem of Sludge Holding Tanks											
C04970	Water-tightness Test for Sludge Holding Tanks											
C04990	Backfilling + Removal of ELS2											
D04920	Constructing Base Slab for MBR Tanks											
D04930	Constructing Wall Stem for MBR Tanks											
D04970	Transformer Room Construction											
D04980	BS + E&M for Transformer Room to CLP (KD7)											
D04985	Energisation by CLP											
D04990	Other Ground Slab Construction											
E04910	Other Superstructure Construction											
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div></div> Milestone</div>			THREE MONTH ROLLING PROGRAMME VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 2 of 20			Date	Revision		Checked	Approved		
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						01-Feb-17	3MRP updated as of 31 Jan. 2017		ZJ			

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						01-Feb-17					
Activity ID		Activity Name		2017							
				Jan	Feb	Mar	Apr	May			
Portion A1 Buildings											
012 - DOH Disinsection Area and Store Room 1, at Portion A1											
A01250	Finishing										
A01260	BS for Office Accommodation (Stage 8) (Degree 2)										
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)										
A01280	Other BS + E&M Installation										
Test & Commission											
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)										
036 - Weigh Station											
A03650	Ceiling/Wall Plaster & Painting										
A03660	Floor Screed										
A03665	External Wall Plaster & Tile										
A03670	BS for Office Accomodation (Stage 8)										
A03680	BS + E&M for Office Accommodation (Stage 9)										
A03690	Other BS + E&M Installation										
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)											
A03740	Steel Frame Structure Installation										
A03742A	Mock-up Sample for Curtain Wall										
A03742B	Mock-up Sample for Cladding										
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade										
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation										
A03748	Wall/Ceiling Plastering/Tiling										
A03752	Floor Screed/Tiling										
A03756	Window/Door Frame Installation										
A03758	Paint Finish										
A03760	BS + E&M for AVCSS Cabling (KD18A)										
A03770	BS + E&M for AVCSS Cabling (KD18B)										
A03780	BS for Office Accomodation (KD9)										
A03785	BS for Office Accomodation (KD10)										
A03790	Other BS + E&M Installation										
Test & Commission											
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)										
B03770	WSD Inspection										
B03790	Beam Plus Monthly Submission & Issue										
041 Fire Station Cum Ambulance Depot											
A04120	Superstructure, G/F to 1/F										
A04122	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)										
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)										
A04132	Blockworks										
A04133	Ceiling & Wall Plastering/Wall Tiling										
A04134	Floor Screeding/Tiling/Vinyl Tiles										
A04135	Ceiling/Wall Painting										
A04136	Carpentry (Door, Fabric Wall Panel, Movable/Folding Partition)										
A04137	False Ceiling Installation										
A04140	BS for Office Accomodation (Stage 8)										
A04160	Other BS + E&M Installation										
Test & Commission											
B04120	Submission & Issue of WW046 I, II, III (Inside Services & FS)										
B04160	DG application										
042 Drill Tower											

Actual Work

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VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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30-Nov-16	3MRP updated as of 30 Nov. 2016	ZJ	
31-Dec-16	3MRP updated as of 31 Dec. 2016	ZJ	
01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities							01-Feb-17			
Activity ID		Activity Name		2017						
				Jan	Feb	Mar	Apr	May		
	A04260	Finishing								
	A04270	BS for Office Accomodation (Stage 8)								
	A04280	BS + E&M for Office Accomodation (Stage 9)								
	A04290	Other BS + E&M Installation								
Test & Commission										
	B04220	T&C for BS Pumps								
043 DOH Office + Store Room										
	A04330	Superstructure								
	A04340	Water Tanks for F.S./Sprinkler Pump Room								
	A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)								
	A04380	BS for Office Accomodation (Stage 8)								
	A04390	BS + E&M for Office Accomodation (Stage 9)								
	B04310	Other BS + E&M Installation								
	B04320	Mock Up For Green Wall (SS39)								
	B04330	Stainless Steel Mesh Installation								
	B04340	Metal Windows/Louvres/Doors/Railing etc. installation								
	B04350	Blockworks								
	B04360	Wall Plastering/Tiling								
	B04370	Floor Screeding/Tiling								
	B04380	False Ceiling Installation & Painting								
	B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)								
	C04310	C/S Wall Plastering								
Test & Commission										
	C04360	Form 2 Submission						◆ Form 2 Subm		
	C04380	DG application						◆ DG applicatio		
052 - Transforms (Zone 4)										
	A05235	Energisation by CLP								
	A05250	Ceiling/Wall Painting Finish & FloorScreed								
	A05260	External Wall Plaster & Wall (KD10)								
	A05270	Main Switch/L.V. Switch Board Installation								
	A05280	Genset Installation								
T&C and Statutory Inspection										
	B05210	T&C for BS & Pumps								
	B05220	DG application								
	B05270	Non-Essential T&C (Non-FSI)								
	B05280	OP Application & TPIDC Inspection								
Completion of Fire Services Installation and Equipment (FCD)										
	C05210	Approved Building Plans						◆ Approved Building Plans		
105 IMMD Guard Booth, Portion A1 (Mock Up)										
	B10500	Shop Drawings & Material Submission								
	B10510	Excavation + Blinding								
	B10520	Substructure (Raft Foundation)								
	B10530	On Grade Ground Slab								
Facade Envelop Structure Installation										
	B10580	Shop Drawing Submission and Approval								
	B10590	Fabrication of F/C System								
External Works for Portion A1										
Drainage Works										
	ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)								
	ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)								
					Date		Revision		Checked	Approved
					30-Nov-16		3MRP updated as of 30 Nov. 2016		ZJ	
					31-Dec-16		3MRP updated as of 31 Dec. 2016		ZJ	
					01-Feb-17		3MRP updated as of 31 Jan. 2017		ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										01-Feb-17			
Activity ID		Activity Name		2017									
				Jan		Feb		Mar		Apr		May	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						01-Feb-17											
Activity ID		Activity Name		2017													
				Jan			Feb			Mar			Apr			May	
Bay 4 - 19 of CUE/Staff Subway																	
C02760		Internal Finishes & Cable Containment (KD1)															
C02770		BS + E&M Installation for AVCSS (Stage 1)															
C02780		Allow Access to C1 for Chilled Water Pipe (CUE) installation														◆ Allow Acces	
Bay 20 - 24 of CUE/Staff Subway																	
C02830		Bay 20 - 24 Construction - Wall + Top Slab															
C02840		Internal Finishes & Cable Containment (KD1)															
C02850		BS + E&M Installation for AVCSS (Stage 1)															
C02860		Allow Access to C1 for Chilled Water Pipe (CUE) installation														◆ Allow Ac	
Bay 25 - 29 of CUE/Staff Subway																	
C02920		Bay 25 -29 Construction - Base Slab															
C02930		Bay 25 - 29 Construction - Wall + Top Slab															
C02960		Internal Finishes & Cable Containment (KD1)															
C02970		BS + E&M Installation for AVCSS (KD1)															
C02980		Allow Access to C1 for Chilled Water Pipe (CUE) installation														◆ Allow Ac	
Portion B Buildings																	
027/028 Inbound Kiosks & 029 Outbound Kiosks																	
A02710		Pre-fabrication for the Steel Kiosks															
A02715		Mock up for Steel Kiosks															
A02718		Mock up for Goods Vehicle Canopy															
A02720		Superstructure															
A02780		BS + E&M for AVCSS Works (KD18A)															
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision																	
B02740		Pre-fabrication for the Steel Kiosks															
B02750		Superstructure															
B02760		BS + E&M for AVCSS Works (KD18C)															
026 Inbound IMMD and DOH Secondary Screening Building																	
A02640		Finishing															
A02650		Contractor's Design Submission for SS Mesh Screen & Approval															
A02660		Contractor's Design Submission for Aluminium Cladding & Approval															
A02670		BS for Office Accomodation (Stage 8)															
A02680		BS + E&M for Office Accomodation (Stage 9)															
A02690		Other BS + E&M Installation															
Test & Commission																	
B02620		Submission & Issue of WW046 I, II, III (Inside Services & FS)															
B02650		TC for BS & Pumps															
B02680		Form 2 Submission														◆ Form 2 Submission	
054 Inbound Fixed X-ray Building																	
A05460		Finishing															
A05467		Energisation by CLP															
A05470		BS for Office Accomodation (Stage 8)															
A05480		BS + E&M for Office Accomodation (Stage 9)															
B05410		Lift Installation															
T&C and Statutory Inspection for Zone 4a																	
B05420		T&C for BS & Pumps															
B05450		DG Application															
Completion of Fire Services Installation and Equipment (FCD)																	
F05440		Approved Building Plans														◆ Approved Building Plans	
Waterworks Ordinance (WSD)																	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			01-Feb-17					
Activity ID		Activity Name	2017					
			Jan	Feb	Mar	Apr	May	
	G05410	Approval Letter and approved Drawings		◆ Approval Letter and approved Drawings				
038 AFCD Office								
A03830	Superstructure; G/F to 1/F							
A03840	Superstructure; 1/F to 2/F (incl. parapet and planter wall)							
A03850	Finishing + Curtain Wall Installation							
A03870	BS for Office Accomodation (Stage 8)							
A03880	BS + E&M for Office Accomodation (Stage 9)							
A03890	Other BS + E&M Installation							
Test & Commission								
B03810	T&C for BS & Pumps							
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)							
C03820	Form 2 Submission					◆ Form 2 Submission		
039 Police Main Building								
A03930	Superstructure; G/F to 1/F							
A03935	Superstructure; 1/F to 2/F (incl. parapet and planter wall)							
Test & Commission								
B03950	Beam Plus Monthly Submission & Issue							
C03910	DG application							
040 Incident Control Tower								
A04040	Superstructure							
A04050	Finishing (KD9)							
A04060	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)							
Facade Cladding System								
B04010	Shop Drawing Submission and Approval							
B04020	Fabrication of F/C System							
B04030	Casted-in Items Installation							
Glass Wall								
C04010	Shop Drawing Submission and Approval							
C04020	Fabrication of Glass Wall							
C04030	Casted-in Items Installation							
102 HKPF UVSS Monitor Room								
A10220	Superstructure							
A10230	Finishing (False Ceiling) (KD9)							
A10240	BS for Office Accomodation (Stage 8)							
A10270	Other BS + E&M Installation							
C10240	FSI Form 314 & 501 Submission						◆ FSI Form	
Metal Canopy and Roof Installation								
B10210	Shop Drawing Submission and Approval							
B10212	Fabrication of MC/R							
B10220	Casted-in Items Installation							
103 Police Inspection Post								
A10330	Raft Foundation							
A10340	Superstructure (Roof Slabs)							
A10350	Finishing (False Ceiling) (KD9)							
A10360	BS for Office Accomodation (Stage 8)							
A10380	Other BS + E&M Installation							
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						◆ WWO 46 Part I, II, III Submission (inside Service + FS)	
HPL Composite Panel Cladding System								
B10310	Shop Drawing Submission and Approval							

Actual Work

Remaining Work

Critical

◆ ◆ Milestone

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities							01-Feb-17		
Activity ID		Activity Name		2017					
				Jan	Feb	Mar	Apr	May	
	EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)							
	EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)							
	EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)							
	EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)							
	EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)							
	EW6110	Flushing Water Main Laying (460m), Stage 3 (N/W)							
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting								
	EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV							
	EU5310	Duct & Cable Laying for TCSS & Lighting							
	EU5630	Access date to Telephone Companies		◆ Access date to Telephone Companies					
	Roadworks								
	ER1640	Subbase (10000 ton), Stage 1 (N/W)							
	ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)							
	ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)							
	ER5590	Subbase (11000 ton), Stage 2 (N/E)							
	Sign Gantry ADS 306A & ADS 306B								
	ES5240	Fabrication & Delivery of Sign Gantrys to Site							
	PORTION C								
	Portion C Buildings								
	010 - Inbound Coach Kiosk & Staff Subway Entrance								
	A01010	Substructure and Staircase Construction							
	009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks								
	A00940	Finishing							
	A00950	BS + E&M for AVCSS works (KD 1)							
	A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUE)		◆ Allow Access to C1 for Chilled Water Pipe Installation (CUE)					
	B00920	Kiosk superstructure							
	012 - DOH Disinsection Area and Store Room 1, at Portion C								
	B01210	Excavation & Blinding							
	B01220	Raft Foundation							
	104 - DOH Secondary Screening Station, at Portion C								
	Facade Cladding System								
	A10460	Shop Drawing Submission and Approval							
	A10465	Fabrication of F/C System							
108 C&ED Mobile X-ray Machine Operation Office, Portion C									
A10805	Excavation & Blinding								
A10810	Raft Foundation								
HPL Composite Panel Cladding System									
A10800	Shop Drawing Submission and Approval								
110 IMMD Guard Booth (Type 2) East									
A11020	Excavation & Blinding								
A11030	Substructure								
Facade Envelop Structure Installation									
A11040	Shop Drawing Submission and Approval								
A11045	Fabrication of F/C System								
111 Field Kiosk for Carpark Operator									
A11120	Excavation & Blinding								
A11130	Raft Foundation								
HPL Composite Panel Cladding System									
B11110	Shop Drawing Submission and Approval								

Actual Work

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Activity ID	Activity Name	2017					
		Jan	Feb	Mar	Apr	May	
B11120	Fabrication of HPL Cladding						
113 - Field Kiosk for Access Control, Portion C							
C11310	Excavation & Blinding						
C11320	Raft Foundation						
204 - Inbound Coach Exam Area & Mobile X-ray Operation							
ER5760	Radiation Screen Wall Construction						
External Works for Portion C							
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building							
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installations and T&C for Contract HY/2013/01						
Drainage Works							
B00040	Initial Survey						
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)						
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)						
PORTION D							
Portion D Building							
113 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accomodation (Stage 8)						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (361m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5350	Duct & Cable Laying for TCSS & Lighting						
SU5640	Access date to Telephone Companies						
Works of Car Park Management System at Location 1.5, 1.6A & 1.6B							
SR5540	Works & T&C for Car Park Management System at Location 1.5						
SR5550	Works & T&C for Car Park Management System at Location 1.6A						
Roadworks							
SR3740	Subbase (261 ton)						
PORTION E							
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00610	ELS + Blinding for Subway						
A00620	Constructing base of Subway						
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			01-Feb-17				
Activity ID	Activity Name		2017				
			Jan	Feb	Mar	Apr	May
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5370	Duct & Cable Laying for TCSS & Lighting						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
PORTION G, H1 & H2							
Portion G Structures							
Box Culvert C							
Box Culvert Structure							
SC0310	Box C - Branch Construction						
SC0320	Box C - Branch Backfilling						
SC0380	Box C - Construction of Main Body						
Bridge A1							
Pier & Abutment							
SA1310	Abutment A106						
Structure Deck							
SA1450	Falsework for Deck P101, P102						
SA1460	Deck on P101, P102 + Stressing						
SA1480	Deck on P104, P105 + Stressing						
SA1490	Falsework for Deck P105, A106						
SA1510	Deck on P105, A106 + Stressing						
Bridge A2							
Structure Deck							
SA2450	Falsework for Deck P201 - P202						
SA2460	Deck on P201 & P202 + Stressing						
Bridge A3							
Pier & Abutment							
SA3330	Abutment A305						
Structure Deck							
SA3440	Deck on P302 - P303 + Stressing						
SA3450	Falsework for Deck P303 - P304a/P304b						
SA3460	Deck on P303, P304a/P304b + Stressing						
SA3470	Falsework for Deck P304a - A305						
Bridge A4							
Pile Cap							
SA4210	Cap - P401						
SA4220	Cap - P402						
Pier & Abutment							
SA4310	Pier P401						
SA4320	Pier P402						
Structure Deck							
SA4410	Falsework for Deck P502b, P401						

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Activity ID		Activity Name		2017							
				Jan	Feb	Mar	Apr	May			
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		01-Feb-17				
Activity ID	Activity Name	2017				
		Jan	Feb	Mar	Apr	May
S S Facade Greenery System						
B03415	Fabrication of SS F/G System					
B03420	Casted-in Items Installation					
B03430	Steel Frame Installation					
035 - Sewage Pumping Station, Portion G						
A03580	Constructing of Wall Stem of Wet Well					
A03590	Water-tightness Test for Wet Wells					
B03510	Backfilling + Removal of ELS					
B03520	ELS + Blinding for Basement					
B03530	Constructing Base Slab of Basement					
B03540	Constructing Basement Wall & G/F Slab					
B03560	Superstructure works					
051 Transformers (Zone 5)						
A05150	Finishing					
A05165	Energisation by CLP					
A05170	BS for Office Accommodations (KD9)					
A05190	Other BS + E & M Installation					
Completion of Fire Services Installation and Equipment (FCD)						
F05140	Approved Building Plans					
100 Inbound Traffic Control Kiosk						
A10050	Finishing					
A10070	BS + E&M for AVCSS Works (KD18A)					
B10060	BS + E&M for AVCSS Cabling (KD18B)					
B10070	BS for Office Accommodations (KD9)					
B10090	Other BS + E & M Installation					
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
HPL Composite Panel Cladding System						
B10010	Shop Drawing Submission and Approval					
B10015	Fabrication of F/C System					
B10020	Casted-in Items Installation					
112 Field Kiosk for Taxi Queuing Area						
A11240	Finishing					
A11250	BS + E & M Installation					
A11260	T&C for BS & Pumps SWT					
External Works for Portion G, H1 & H2						
ELV Works within Portion H2 in the Hong Kong Side PTI						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI						
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)					
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050						
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1689m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5400	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
Sign Gantry DS40, DS41 & DS75						
ES0080	Testing for Pre-bored H Piling					

Actual Work

Remaining Work

Critical

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Activity ID		Activity Name	2017					
			Jan	Feb	Mar	Apr	May	
	A06030	BS + E&M for Transform Room to CLP (KD8)						
	A06045	Raft Foundation (other than transformer room)						
	A06050	Superstructure (other than transformer room) Construction						
	Waterworks Ordinance (WSD)							
	G06020	Submission of WWO46 - Part I & II (Inside Services)						
	DG License & EPD Generator Approval							
	G06000	DG Application						
	061 Telecom Building							
	A06130	Raft Foundation						
	A06140	Superstructure						
A06150	Finishing (KD9)							
A06160	BS for Office Accommodations (KD9)							
A06170	BS + E&M for Office Accommodation (KD10)							
A06180	Other BS + E & M Installation							
Aluminium Metal Canopy								
B06110	Shop Drawing Submission and Approval							
B06115	Fabrication of Aluminium Cladding							
B06120	Casted-in Items Installation							
101 Outbound Traffic Control Kiosk								
A10100	Excavation + Blinding							
A10110	Raft Foundation							
A10130	Superstructure (Roof Beams & Slabs)							
A10140	Finishing							
A10150	BS + E&M for AVCSS Works (KD18A)							
A10160	BS + E&M for AVCSS Cabling (KD18B)							
A10170	BS for Office Accommodations (KD9)							
A10190	Other BS + E & M Installation							
C10110	Submission of WWO46 - Part I & II (Inside Services)							
HPL Composite Panel Cladding System								
B10110	Shop Drawing Submission and Approval							
B10120	Fabrication of HPL Cladding							
206 - Outbound Private Car Mobile X-ray Operation Area								
ER5780	Radiation Screen Wall Construction							
External Works for Portion J								
Works in Location 1.7B								
EU1500	ELV Works & T&C in Location 1.7B							
Works in Location 1.7C								
EU1530	ELV Works & T&C in Location 1.7C							
Drainage Works								
ED4220	Drainage Works (1700m & 86MHs), Stage 1							
ED4340	Sewerage (425m & 11MHs), Stage 1							
ED5710	Drainage Works (1697m & 85MHs), Stage 2							
ED5720	Sewerage (425m & 12MHs), Stage 2							
Waterpipe Laying								
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)							
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)							
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting								
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV							
EU5430	Duct & Cable Laying for TCSS & Lighting							

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Activity ID	Activity Name	2017				
		Jan	Feb	Mar	Apr	May
Roadworks						
ER4320	Subbase (15400 ton), Stage 1 (Northern)					
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)					
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)					
Sign Gantry DS104						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
A00230	Superstructure					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
B00230	Superstructure					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10800	Excavation + Blinding					
B10810	Substructure (raft Foundation)					
B10840	Superstructure (Roof beams & Slabs)					
B10850	Finishing					
B10860	BS for Office Accommodations (KD9)					
B10880	Other BS + E & M Installation					
HPL Composite Panel Cladding System						
C10810	Shop Drawing Submission and Approval					
C10820	Fabrication of HPL Cladding					
C10830	Casted-in Items Installation					
104 DOH Screening Station, at Portion M						
C10400	Excavation + Blinding					
C10430	Structure (Raft Foundation)					
C10440	Finishing					
C10450	BS for Office Accommodations (KD9)					
C10470	Other BS + E & M Installation					
Facade Envelop Structure Installation						
D10450	Shop Drawing Submission and Approval					
D10455	Fabrication of F/C System					
203 - Outbound Coach/Shuttle Bus Exam Area & Mobile X-ray Operation Area						
ER5770	Radiation Screen Wall Construction					
External Works						
Additional Works (Filling & RE Slope), SA1						
ED3120	Approval of RE Slope by GEO/AECOM					
ED3210	C1 Contractor to Completed cooling mains at east Portion (Stage1)					
ED3220	Removal of Access & Form another Temp. Access for Cooling Main					
ED3270	Remove surcharge at the edge of Platform (North, Portion S, KD32)					
ED3280	Remove surcharge at the Platform (East, Portion T, KD33)					
Construction of Slopes						

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			Jan	Feb	Mar	Apr	May	
	ED3510	Footing for the Planter Wall, RE slope (North & West)	<div></div>	<div></div>				
	ED3520	Construct RE slope (West)		<div></div>	<div></div>			
	ED3550	Construction of fill slope (North)		<div></div>	<div></div>			
	Drainage Works							
	ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)		<div></div>	<div></div>			
	ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)		<div></div>	<div></div>			
	Waterpipe Laying							
	EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)			<div></div>	<div></div>		
	EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)			<div></div>	<div></div>		
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
	EU5450	Duct & Cable Laying for TCSS & Lighting		<div></div>	<div></div>			
	Canopy and Covered Walkway							
	CC1400	Shop drawing, Approved & Fabrication		<div></div>	<div></div>			
	PORTION N							
	Portion N Structure							
	Box Culvert B							
	Bored Pile							
	SB0560	Install H-piles	<div></div>	<div></div>				
	SB0590	Box B - Foundation: Revised as pre-bored H-Piles		<div></div>	<div></div>	<div></div>	<div></div>	
	Box Culvert Structure							
SB0710	Box B - Construction (Stage 1)			<div></div>	<div></div>	<div></div>		
SB0715	Handover from RC (1/11/16)			<div></div>	<div></div>	<div></div>		
SB0722	Box B - Temporary Works for Construction of Outfall Structure			<div></div>	<div></div>	<div></div>		
Portion N Buildings								
104 DOH Screening Station, at Portion N								
Facade Envelop Structure Installation								
D10410	Shop Drawing Submission and Approval		<div></div>	<div></div>				
D10415	Fabrication of F/C System			<div></div>	<div></div>	<div></div>		
106 C&ED Detention Area Guard Booth								
A10600	Excavation + Blinding		<div></div>					
A10610	Structure (Raft Foundation)		<div></div>	<div></div>				
A10640	Finishing			<div></div>	<div></div>	<div></div>		
E10640	BS for Office Accommodations (KD9)			<div></div>	<div></div>	<div></div>		
E10660	Other BS + E & M Installation			<div></div>	<div></div>	<div></div>		
Facade Envelop Structure Installation								
B10610	Shop Drawing Submission and Approval		<div></div>	<div></div>				
B10615	Fabrication of F/C System			<div></div>	<div></div>	<div></div>		
107 C&ED Mobile X-ray Operation Office, Portion N								
A10700	Excavation + Blinding		<div></div>					
A10710	Substructure (Raft Foundation)			<div></div>	<div></div>	<div></div>		
A10740	Superstructure				<div></div>	<div></div>		
HPL Composite Panel Cladding System								
B10710	Shop Drawing Submission and Approval				<div></div>	<div></div>		
200 - Inbound/Outbound Vehicle Dectection Area								
ER5810	Construction of the Area and Access to the Interface Contractor		<div></div>	<div></div>	<div></div>	<div></div>		
202 - Outbound Cargo Mobile X-ray Opeartion Area								
ER5790	Radiation Screen Wall Construction		<div></div>	<div></div>	<div></div>	<div></div>		
External Works for Portion N								

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Remaining Work

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Activity ID		Activity Name	2017																					
			Jan	Feb	Mar	Apr	May																	
<div></div>	Roadworks		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>																	
	AS0170	Initial Survey																						
	AS1810	C3-S1 Slope Construction																						
	AS1820	C3-S2 Slope Construction																						
	PORTION R																							
	Portion R Building																							
	002 - C&ED Observation Guard Booth, Portion R																							
	D00210	Excavation + Blinding																						
	D00220	Raft Foundation																						
	External Works for Portion R																							
	Drainage Works																							
	AS0180	Initial Survey																						
	ED4960	Drainage Works (1040m & 70MHs)																						
	ED5080	Sewerage (272m & 7MHs)																						
	Landscape Works																							
	A5170	Design and Procurement for Irrigation System																						
<div><div>Actual Work</div><div>Remaining Work</div><div>Critical</div><div>Milestone</div></div>		<div>THREE MONTH ROLLING PROGRAMME</div> <div>VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</div> <div>Page 20 of 20</div>						<table><tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr><tr><td>30-Nov-16</td><td>3MRP updated as of 30 Nov. 2016</td><td>ZJ</td><td></td></tr><tr><td>31-Dec-16</td><td>3MRP updated as of 31 Dec. 2016</td><td>ZJ</td><td></td></tr><tr><td>01-Feb-17</td><td>3MRP updated as of 31 Jan. 2017</td><td>ZJ</td><td></td></tr><tr><td colspan="4"></td></tr></table>	Date	Revision	Checked	Approved	30-Nov-16	3MRP updated as of 30 Nov. 2016	ZJ		31-Dec-16	3MRP updated as of 31 Dec. 2016	ZJ		01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			02-Mar-17				
Activity ID	Activity Name	2017					
		Feb	Mar	Apr	May	Jun	
SA9430	Falsework for Deck P903 - P902						
SA9420	Deck on P904, P903 + Stressing						
SA9415	Falsework for Deck P904 - P903						
SA9410	Deck on A905, P904 + Stressing						
SA9400	Falsework for Deck A905 - P904						
Retaining Wall W8-1							
SW8130	Parapet W8-1 (16 pour) & E&M Works						
SW8120	Backfilling W8-1						
SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)						
Retaining Wall W9-1							
SW9130	Parapet W9-1 (16 pour) & E&M Works						
SW9120	Backfilling W9-1						
SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays)						
Box Culvert D							
Box Culvert D Construction							
SD0180	Box Culvert D Backfilling						
SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)						
047 - Fresh Water Pumping Station, Portion A1 & A2							
A04770	BS installation + E&M (Degree 2)						
A04760	Parapet Wall at Roof Slab & Fiishing						
A04752	Water-tightness Test for Water Tank						
A04750	Pump House Construction						
A04740	Water Tank Construction						
Test & Commission							
B04730	Submission & Issue of WW046 IV, V (Inside Services & FS)						
049 - Sewage Treatment Plant, Portion A1 & A2							
E04910	Other Superstructure Construction						
D04990	Other Ground Slab Construction						
D04985	Energisation by CLP						
D04980	BS + E&M for Transformer Room to CLP (KD7)						
D04940	Water-tightness Test for MBR Tanks						
D04930	Constructing Wall Stem for MBR Tanks						
C04990	Backfilling + Removal of ELS2						
C04970	Water-tightness Test for Sludge Holding Tanks						
C04960	Constructing Wall Stem of Sludge Holding Tanks						
C04950	Backfilling + Removal Strut of ELS2						
C04940	Constructing Base Slab of Sludge Holding Tanks						
C04910	Water-tightness Test for Equalization Tanks						
B04990	Constructing Wall Stem for Equalization Tanks						
B04980	Backfilling + Removing 3rd Strut of ELS1						
Portion A1 Buildings							
012 - DOH Disinsection Area and Store Room 1, at Portion A1							
A01280	Other BS + E&M Installation						
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)						
A01260	BS for Office Accommodation (Stage 8) (Degree 2)						
A01250	Finishing						
Test & Commission							
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
036 - Weigh Station							
A03690	Other BS + E&M Installation						

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Activity ID	Activity Name	2017				
		Feb	Mar	Apr	May	Jun
A03680	BS + E&M for Office Accommodation (Stage 9)					
A03670	BS for Office Accomodation (Stage 8)					
A03665	External Wall Plaster & Tile					
A03650	Ceiling/Wall Plaster & Painting					
Test & Commission						
B03670	BEE0 Stage II & Accessor Certification Submission					
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)						
A03790	Other BS + E&M Installation					
A03785	BS for Office Accomodation (KD10)					
A03780	BS for Office Accomodation (KD9)					
A03770	BS + E&M for AVCSS Cabling (KD18B)					
A03760	BS + E&M for AVCSS Cabling (KD18A)					
A03758	Paint Finish					
A03756	Window/Door Frame Installation					
A03752	Floor Screed/Tiling					
A03748	Wall/Ceiling Plastering/Tiling					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03740	Steel Frame Structure Installation					
Test & Commission						
B03790	Beam Plus Monthly Submission & Issue					
B03770	WSD Inspection					
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
041 Fire Station Cum Ambulance Depot						
A04160	Other BS + E&M Installation					
A04140	BS for Office Accomodation (Stage 8)					
A04137	False Ceiling Installation					
A04136	Carpentry (Door, Fabric Wall Panel, Movable/Folding Partition)					
A04135	Ceiling/Wall Painting					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04133	Ceiling & Wall Plastering/Wall Tiling					
A04132	Blockworks					
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04122	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)					
Test & Commission						
B04160	DG application					
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)					
042 Drill Tower						
A04290	Other BS + E&M Installation					
A04280	BS + E&M for Office Accomodation (Stage 9)					
A04270	BS for Office Accomodation (Stage 8)					
A04260	Finishing					
Test & Commission						
B04220	T&C for BS Pumps					
043 DOH Office + Store Room						
C04310	C/S Wall Plastering					
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)					
B04380	False Ceiling Installation & Painting					
B04370	Floor Screeding/Tiling					

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Activity ID	Activity Name	2017					
		Feb	Mar	Apr	May	Jun	
B04360	Wall Plastering/Tiling						
B04350	Blockworks						
B04340	Metal Windows/Louvres/Doors/Railing etc. installation						
B04330	Stainless Steel Mesh Installation						
B04320	Mock Up For Green Wall (SS39)						
B04310	Other BS + E&M Installation						
A04390	BS + E&M for Office Accomodation (Stage 9)						
A04380	BS for Office Accomodation (Stage 8)						
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)						
Test & Commission							
C04380	DG application						
C04360	Form 2 Submission						
C04340	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
052 - Transforms (Zone 4)							
A05280	Genset Installation						
A05270	Main Switch/L.V. Switch Board Installation						
A05260	External Wall Plaster & Wall (KD10)						
A05250	Ceiling/Wall Painting Finish & Floor Screed						
A05235	Energisation by CLP						
T&C and Statutory Inspection							
B05280	OP Application & TPIDC Inspection						
B05270	Non-Essential T&C (Non-FSI)						
B05220	DG application						
B05210	T&C for BS & Pumps						
Completion of Fire Services Installation and Equipment (FCD)							
C05210	Approved Building Plans						
105 IMM D Guard Booth, Portion A1 (Mock Up)							
B10560	BS + E&M for Office Accommodation (KD10)						
B10550	BS for Office Accommodations (KD9)						
B10540	Finishing						
B10530	On Grade Ground Slab						
B10520	Substructure (Raft Foundation)						
B10510	Excavation + Blinding						
B10500	Shop Drawings & Material Submission						
Facade Envelop Structure Installation							
B10590	Fabrication of F/C System						
B10580	Shop Drawing Submission and Approval						
210 - ImmD GV Secondary Examination Bays Inbound							
ER5830	Construction of the Area and Access to the Interface Contractor						
External Works for Portion A1							
Drainage Works							
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)						
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)						
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)						
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)						
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)						
Waterpipe Laying							
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)						
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)						
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)						

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Activity ID		Activity Name		2017						
				Feb	Mar	Apr	May	Jun		
	EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)								
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting									
	EU5270	Duct & Cable Laying for TCSS & Lighting								
	EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV								
	PORTION A2									
	Portion A2 Structures									
	046 - Refuse Collection Point, Portion A2									
	A04620	Superstrurcture w/2 water tank								
	A04610	Raft Foundation								
	Test & Commission									
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)									
048 - Reclaimed Water Pumping Station, Portion A2										
B04840	Other BS + E&M Installation									
B04820	BS for Office Accommodations (Stage 8) (KD9)									
B04810	Superstructure Construction									
A04890	Backfilling									
A04880	Water-tightness Test for Basement 2									
A04870	Basement 2 Construction									
A04867	Backfilling + Removal of ELS									
A04865	Water-tightness Test for Basement 1									
A04860	Basement 1 Construction									
Test & Commission										
B04880	Submission & Issue of WW046 I, II, III (Inside Services & FS)									
B04860	DG Application									
Retaining Wall W9-2										
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)									
External Works for Portion A2										
Drainage Works										
ED3560	Sewerage (161m & 5MHs), Stage 1 (Eastern)									
ED2280	Drainage Works (114m & 8MHs), Stage 1 (Eastern)									
Waterpipe Laying										
EW2300	Flushing Water Main Laying (45m), Stage 1 (Eastern)									
EW2290	Fresh Water Main Laying (118m), Stage 1 (Eastern)									
Roadworks										
ER3570	Bitumen Pavement (560 ton), Stage 1 (Eastern)									
ER2380	Subbase (400 ton), Stage 1 (Eastern)									
PORTION B										
Portion B Structures										
Retaining Wall W7-2										
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works									
S70910	C3-S6 Slopeworks									
S70890	Retaining Wall W7-2 Backfilling									
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)									
Retaining Wall W6-1										
S62080	Retaining Wall W6-1 Drainage System & Cable Laying									
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works									
S62060	Retaining Wall W6-1 Backfilling									
S62050	Construction of Retaining Wall W6-1 (L-shape, 4 bays)									
Bay 4 - 19 of CUE/Staff Subway										

Actual Work

Remaining Work

Critical

Milestone

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		02-Mar-17				
Activity ID	Activity Name	2017				
		Feb	Mar	Apr	May	Jun
C02780	Allow Access to C1 for Chilled Water Pipe (CUE) installation				◆ Allow Access to C1 for Chilled Water Pipe (CUE) installation	
C02770	BS + E&M Installation for AVCSS (Stage 1)					
Bay 20 - 24 of CUE/Staff Subway						
C02860	Allow Access to C1 for Chilled Water Pipe (CUE) installation				◆ Allow Access to C1 for Chilled Water Pipe (CUE) installation	
C02850	BS + E&M Installation for AVCSS (Stage 1)					
C02840	Internal Finishes & Cable Containment (KD1)					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
Bay 25 - 29 of CUE/Staff Subway						
C02980	Allow Access to C1 for Chilled Water Pipe (CUE) installation				◆ Allow Access to C1 for Chilled Water Pipe (CUE) installation	
C02970	BS + E&M Installation for AVCSS (KD1)					
C02960	Internal Finishes & Cable Containment (KD1)					
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
Portion B Buildings						
027/028 Inbound Kiosks & 029 Outbound Kiosks						
B02720	Other BS + E&M Installation					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02760	BS for Office Accomodation (Stage 8)					
A02750	Finishing					
A02740	Construction of Subway Toilets					
A02730	Construction of Subway Entrance					
A02720	Superstructure					
A02718	Mock up for Goods Vehicle Canopy					
A02715	Mock up for Steel Kiosks					
A02710	Pre-fabrication for the Steel Kiosks					
Test & Commission						
B02830	Submission & Issue of WW046 IV, V (Inside Services & FS)					
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision						
B02770	BS + E&M for AVCSS Works (KD18D)					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02750	Superstructure					
B02740	Pre-fabrication for the Steel Kiosks					
026 Inbound IMMD and DOH Secondary Screening Building						
A02690	Other BS + E&M Installation					
A02680	BS + E&M for Office Accomodation (Stage 9)					
A02670	BS for Office Accomodation (Stage 8)					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02640	Finishing					
Test & Commission						
B02680	Form LE5 Submission to EMSD				◆ Form LE5 Submission to EMSD	
B02650	TC for BS & Pumps					
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B02620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
054 Inbound Fixed X-ray Building						
B05410	Lift Installation					
A05490	Other BS + E&M Installation					
A05480	BS + E&M for Office Accomodation (Stage 9)					
A05470	BS for Office Accomodation (Stage 8)					
A05467	Energisation by CLP					

Actual Work

Remaining Work

Critical

◆ Milestone

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			02-Mar-17				
Activity ID	Activity Name	2017					
		Feb	Mar	Apr	May	Jun	
A05460	Finishing						
T&C and Statutory Inspection for Zone 4a							
B05450	DG Application						
B05420	T&C for BS & Pumps						
Waterworks Ordinance (WSD)							
G05410	Approval Letter and approved Drawings						
038 AFCD Office							
A03890	Other BS + E&M Installation						
A03880	BS + E&M for Office Accomodation (Stage 9)						
A03870	BS for Office Accomodation (Stage 8)						
A03850	Finishing + Curtain Wall Installation						
A03840	Superstructure; 1/F to 2/F (incl. parapet and planter wall)						
Test & Commission							
C03820	Form 2 Submission						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03810	T&C for BS & Pumps						
039 Police Main Building							
A03970	Other BS + E&M Installation						
A03960	BS + E&M for Office Accomodation (Stage 9)						
A03950	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)						
A03940	Finishing + Curtain Wall Installation						
A03935	Superstructure; 1/F to 2/F (incl. parapet and planter wall)						
Test & Commission							
C03970	T&C for BS & Pumps						
C03950	Form 2 Submission						
C03910	DG application						
B03950	Beam Plus Monthly Submission & Issue						
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
040 Incident Control Tower							
A04060	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)						
A04050	Finishing (KD9)						
A04040	Superstructure						
Facade Cladding System							
B04030	Casted-in Items Installation						
B04020	Fabrication of F/C System						
Glass Wall							
C04030	Casted-in Items Installation						
C04020	Fabrication of Glass Wall						
102 HKPF UVSS Monitor Room							
C10210	WWO 46 Part I, II, III Submission (inside Service + FS)						
A10270	Other BS + E&M Installation						
A10240	BS for Office Accomodation (Stage 8)						
A10230	Finishing (False Ceiling) (KD9)						
Metal Canopy and Roof Installation							
B10220	Casted-in Items Installation						
B10212	Fabrication of MC/R						
103 Police Inspection Post							
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						
A10380	Other BS + E&M Installation						

Actual Work

Remaining Work

Critical

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Activity ID		Activity Name		2017									
				Feb		Mar		Apr		May		Jun	
	EW6110	Flushing Water Main Laying (460m), Stage 3 (N/W)											
	EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)											
	EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)											
	EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)											
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting												
	EU5630	Access date to Telephone Companies											
	EU5310	Duct & Cable Laying for TCSS & Lighting											
	EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
	Roadworks												
	ER5590	Subbase (11000 ton), Stage 2 (N/E)											
	ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)											
	ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)											
	ER1640	Subbase (10000 ton), Stage 1 (N/W)											
	Sign Gantry ADS 306A & ADS 306B												
	ES5240	Fabrication & Delivery of Sign Gantrys to Site											
	PORTION C												
	Portion C Buildings												
	010 - Inbound Coach Kiosk & Staff Subway Entrance												
	A01010	Substructure and Staircase Construction											
	009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks												
B00930	BS + E&M for AVCSS works (KD18A)												
B00920	Kiosk superstructure												
A00960	AllowAccess to C1 for Chilled Water Pipe Installation (CUE)												
A00950	BS + E&M for AVCSS works (KD 1)												
A00940	Finishing												
012 - DOH Disinsection Area and Store Room 1, at Portion C													
B01230	Supersturcture												
B01220	Raft Foundation												
B01210	Excavation & Blinding												
104 - DOH Secondary Screening Station, at Portion C													
Facade Cladding System													
A10465	Fabrication of F/C System												
A10460	Shop Drawing Submission and Approval												
108 C&ED Mobile X-ray Machine Operation Office, Portion C													
A10840	Superstructure (Roof Beams & Slabs)												
A10810	Raft Foundation												
A10805	Excavation & Blinding												
HPL Composite Panel Cladding System													
A10815	Fabrication of HPL Cladding												
A10800	Shop Drawing Submission and Approval												
110 IMMD Guard Booth (Type 2) East													
A11090	BS for Office Accomodation (Stage 8)												
A11080	Finishing												
A11030	Substructure												
A11020	Excavation & Blinding												
Facade Envelop Structure Installation													
A11045	Fabrication of F/C System												
A11040	Shop Drawing Submission and Approval												
111 Field Kiosk for Carpark Operator													

Actual Work

Remaining Work

Critical

Milestone

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										02-Mar-17	
Activity ID		Activity Name		2017							
				Feb	Mar	Apr	May	Jun			
	A11140	Superstructure (Roof beams & Slabs)									
	A11130	Raft Foundation									
	A11120	Excavation & Blinding									
	HPL Composite Panel Cladding System										
	B11120	Fabrication of HPL Cladding									
	B11110	Shop Drawing Submission and Approval									
	113 - Field Kiosk for Access Control, Portion C										
	C11330	Superstructure (Roof Beams & Slabs)									
	C11320	Raft Foundation									
	C11310	Excavation & Blinding									
	204 - Inbound Coach Exam Area & Mobile X-ray Operation										
	ER5760	Radiation Screen Wall Construction									
	External Works for Portion C										
	Works in Location 1.2, 1.8 & 011 - Emergency Generator Building										
	BB1470	Provisioning of Civil Engineering Works for 011-Emergency Generator Building (KD18)									
	BB1460	ELV System Installations and T&C for Contract HY/2013/01									
	BB1450	Works & T&C in Location 1.8									
	BB1440	Works & T&C in Location 1.2									
	Drainage Works										
	SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)									
	SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)									
	B00040	Initial Survey									
	Waterpipe Laying										
	SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)									
	SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)									
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting											
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV										
PORTION D											
Portion D Building											
113 - Field Kiosk for Access Control, Portion D											
D11340	BS for Office Accomodation (Stage 8)										
C11370	Superstructure (Roof Beams & Slabs)										
C11360	Raft Foundation										
External Works for Portion D											
Drainage Works											
SG3760	Sewerage (121m & 6MHs)										
SG3640	Drainage Works (361m & 14MHs)										
Waterpipe Laying											
SW3650	Fresh Water Main Laying (108m)										
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting											
SU5640	Access date to Telephone Companies										
SU5350	Duct & Cable Laying for TCSS & Lighting										
Works of Car Park Management System at Location 1.5, 1.6A & 1.6B											
SR5550	Works & T&C for Car Park Management System at Location 1.6A										
SR5540	Works & T&C for Car Park Management System at Location 1.5										
Roadworks											
SR3770	Bitumen Pavement (619 ton)										
SR3740	Subbase (261 ton)										
PORTION E											
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div></div> Milestone</div>			THREE MONTH ROLLING PROGRAMME VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES			Date		Revision		Checked	Approved
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										02-Mar-17			
Activity ID		Activity Name		2017									
				Feb		Mar		Apr		May		Jun	
006 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M													
A00650		Constructing Ground Slab											
A00640		Backfilling											
A00630		Constructing wall stem + top slab of Subway											
A00620		Constructing base of Subway											
A00610		ELS + Blinding for Subway											
External Works for Portion E													
Drainage Works													
SG3900		Sewerage (38m & 1 MH)											
SG3780		Drainage Works (99m & 5MHs)											
Waterpipe Laying													
SW3800		Flushing Water Main Laying (25m)											
SW3790		Fresh Water Main Laying (45m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5370		Duct & Cable Laying for TCSS & Lighting											
SU5360		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
PORTION F													
External Works for Portion F													
Drainage Works													
SG4050		Sewerage (70m & 3MHs)											
SG3930		Drainage Works (122m & 9MHs)											
B00070		Initial Survey											
Waterpipe Laying													
SW3940		Fresh Water Main Laying (205m)											
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5390		Duct & Cable Laying for TCSS & Lighting											
SU5380		Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV											
PORTION G, H1 & H2													
Portion G Structures													
Box Culvert C													
Box Culvert Structure													
SC0380		Box C - Construction of Main Body											
SC0320		Box C - Branch Backfilling											
SC0310		Box C - Branch Construction											
Bridge A1													
Structure Deck													
SA1520		Parapet (42 pour), E&M works & installation of DS38 & DS39											
SA1510		Deck on P105, A106 + Stressing											
SA1490		Falsework for Deck P105, A106											
SA1460		Deck on P101, P102 + Stressing											
SA1450		Falsework for Deck P101, P102											
Bridge A2													
Structure Deck													
SA2460		Deck on P201 & P202 + Stressing											
SA2450		Falsework for Deck P201 - P202											
Bridge A3													
Pier & Abutment													
SA3330		Abutment A305											
Structure Deck													

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities						02-Mar-17				
Activity ID		Activity Name		2017						
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			Feb	Mar	Apr	May	Jun
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										02-Mar-17																	
Activity ID		Activity Name		2017																							
				Feb		Mar		Apr		May		Jun															
S S Facade Greenery System																											
B03430		Steel Frame Installation																									
B03420		Casted-in Items Installation																									
B03415		Fabrication of SS F/G System																									
035 - Sewage Pumping Station, Portion G																											
B03560		Superstructure works																									
B03550		Water-tightness Test for Inlet Chamber																									
B03540		Constructing Basement Wall & G/F Slab																									
B03530		Constructing Base Slab of Basement																									
B03510		Backfilling + Removal of ELS																									
A03590		Water-tightness Test for Wet Wells																									
A03580		Constructing of Wall Stem of Wet Well																									
051 Transformers (Zone 5)																											
A05190		Other BS + E & M Installation																									
A05180		BS + E&M for Office Accommodation (KD10)																									
A05170		BS for Office Accommodations (KD9)																									
A05165		Energisation by CLP																									
A05150		Finishing																									
Completion of Fire Services Installation and Equipment (FCD)																											
F05140		Approved Building Plans		◆ Approved Building Plans																							
100 Inbound Traffic Control Kiosk																											
C10010		Submission & Issue of WW046 I, II, III (Inside Services & FS)																									
B10090		Other BS + E & M Installation																									
B10070		BS for Office Accommodations (KD9)																									
B10060		BS + E&M for AVCSS Cabling (KD18B)																									
A10070		BS + E&M for AVCSS Works (KD18A)																									
A10050		Finishing																									
HPL Composite Panel Cladding System																											
B10020		Casted-in Items Installation																									
B10015		Fabrication of F/C System																									
112 Field Kiosk for Taxi Queuing Area																											
A11260		T&C for BS & Pumps SWT																									
A11250		BS + E & M Installation																									
A11240		Finishing																									
External Works for Portion G, H1 & H2																											
ELV Works within Portion H2 in the Hong Kong Side PTI																											
EU1550		ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)																									
Works within Portion H1 & H2 except the ELV Works in the Hong Kong Side PTI																											
EU1560		Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)																									
All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050																											
BEU1570		Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050																									
Drainage Works																											
ED4190		Sewerage (437m & 12MHs)																									
ED4070		Drainage Works (6954m & 393MHs)																									
Waterpipe Laying																											
EW4090		Flushing Water Main Laying (411m)																									
EW4080		Fresh Water Main Laying (1689m)																									
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting																											
EU5560		ELV Installation																									
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div>◆</div> Milestone</div>				THREE MONTH ROLLING PROGRAMME VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 14 of 20						<table><tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr><tr><td>31-Dec-16</td><td>3MRP updated as of 31 Dec. 2016</td><td>ZJ</td><td></td></tr><tr><td>01-Feb-17</td><td>3MRP updated as of 31 Jan. 2017</td><td>ZJ</td><td></td></tr><tr><td>28-Feb-17</td><td>3MRP updated as of 28 Feb. 2017</td><td>ZJ</td><td></td></tr></table>		Date	Revision	Checked	Approved	31-Dec-16	3MRP updated as of 31 Dec. 2016	ZJ		01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ		28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		02-Mar-17				
Activity ID	Activity Name	2017				
		Feb	Mar	Apr	May	Jun
EU5400	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
Roadworks						
ER4170	Subbase (17045 ton)					
Sign Gantry DS40, DS41 & DS75						
ES0180	Fabrication & Delivery of Sign Gantrys to Site					
ES0080	Testing for Pre-bored H Piling					
Canopy and Covered Walkway						
CC1320	Footing					
CC1310	Shop drawing, Approved & Fabrication					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE/Staff Subway (Portion J)						
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)					
B03260	Internal Finishes & Cable Containment (KD2)					
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase					
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase					
030 Outbound Private Car & GV Kiosks						
A03030	Superstructure (Incl. Entrance & Toilet)					
A03020	Pre-fabrication for the Steel Kiosks					
030 Outbound Kiosks, Section IX, Subject to Excision						
C03030	Superstructure					
C03020	Pre-fabrication for the Steel Kiosks					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02460	Other BS + E & M Installation (KD31)					
A02440	BS for Office Accommodations (KD18F)					
A02430	Finishing (KD9)					
A02420	Superstructure					
A02410	Raft Foundation					
Test & Commission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
Glass Canopy Installation						
B02420	Casted-in Items Installation					
B02415	Fabrication of F/C System					
B02410	Shop Drawing Submission and Approval					
Aluminium Metal Canopy						
B02460	Casted-in Items Installation					
B02455	Fabrication of F/C System					
B02450	Shop Drawing Submission and Approval					
031 Outbound IMMD and DOH Secondary Screen Building						
A03180	Other BS + E & M Installation (KD31)					
A03160	BS for Office Accommodations (KD18F)					
A03150	Finishing (KD31)					
A03140	Superstructure					
Test & Commission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
060 - Single Storey Support Building Associated with Buildings 044 & 045						
A06060	BS for Office Accommodation (Stage 10) (KD11)					
A06055	Energisation by CLP					

Actual Work

Remaining Work

Critical

Milestone

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Date	Revision	Checked	Approved
31-Dec-16	3MRP updated as of 31 Dec. 2016	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities										02-Mar-17			
Activity ID		Activity Name		2017									
				Feb		Mar		Apr		May		Jun	
	A06050	Superstructure (other than transformer room) Construction											
	A06045	Raft Foundation (other than transformer room)											
	A06030	BS + E&M for Transform Room to CLP (KD8)											
	A06025	Finishing											
	A06020	Superstructure (Transformer Room) Construction											
	Waterworks Ordinance (WSD)												
	G06020	Submission of WWO46 - Part I & II (Inside Services)											
	DG License & EPD Generator Approval												
	G06000	DG Application											
	061 Telecom Building												
	A06180	Other BS + E & M Installation											
	A06170	BS + E&M for Office Accommodation (KD10)											
	A06160	BS for Office Accommodations (KD9)											
	A06150	Finishing (KD9)											
	Aluminium Metal Canopy												
	B06130	Steel Frame Installation											
	B06120	Casted-in Items Installation											
	B06115	Fabrication of Aluminium Cladding											
	B06110	Shop Drawing Submission and Approval											
	101 Outbound Traffic Control Kiosk												
	C10110	Submission of WWO46 - Part I & II (Inside Services)											
	A10190	Other BS + E & M Installation											
	A10170	BS for Office Accommodations (KD9)											
	A10160	BS + E&M for AVCSS Cabling (KD18B)											
	A10150	BS + E&M for AVCSS Works (KD18A)											
	A10140	Finishing											
	A10130	Superstructure (Roof Beams & Slabs)											
	A10110	Raft Foundation											
	A10100	Excavation + Blinding											
	HPL Composite Panel Cladding System												
B10120	Fabrication of HPL Cladding												
B10110	Shop Drawing Submission and Approval												
206 - Outbound Private Car Mobile X-ray Operation Area													
ER5780	Radiation Screen Wall Construction												
External Works for Portion J													
Works in Location 1.7B													
EU1500	ELV Works & T&C in Location 1.7B												
Works in Location 1.7C													
EU1530	ELV Works & T&C in Location 1.7C												
Drainage Works													
ED5720	Sewerage (425m & 12MHs), Stage 2												
ED5710	Drainage Works (1697m & 85MHs), Stage 2												
ED4340	Sewerage (425m & 11MHs), Stage 1												
ED4220	Drainage Works (1700m & 86MHs), Stage 1												
Waterpipe Laying													
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)												
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)												
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
EU5430	Duct & Cable Laying for TCSS & Lighting												
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV												
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div></div> Milestone</div>			THREE MONTH ROLLING PROGRAMME VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 16 of 20					Date	Revision		Checked	Approved	
							31-Dec-16	3MRP updated as of 31 Dec. 2016		ZJ			
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							28-Feb-17	3MRP updated as of 28 Feb. 2017		ZJ			

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		02-Mar-17				
Activity ID	Activity Name	2017				
		Feb	Mar	Apr	May	Jun
Roadworks						
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)					
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)					
ER4320	Subbase (15400 ton), Stage 1 (Northern)					
Sign Gantry DS104						
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
ES5130	Testing for P-bored Piles					
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
PORTION K, L, M, S & T						
Portion K Building						
002 - C&ED Observation Guard Booth No. 1, Portion K						
A00230	Superstructure					
A00220	Raft Foundation					
A00210	Excavation + Blinding					
002 - C&ED Observation Guard Booth No. 2, Portion K						
B00230	Superstructure					
B00220	Raft Foundation					
B00210	Excavation + Blinding					
Portion M Buildings						
108 - C&ED Mobile X-ray Operation Office, Portion M						
B10860	BS for Office Accommodations (KD9)					
B10850	Finishing					
B10840	Superstructure (Roof beams & Slabs)					
B10810	Substructure (raft Foundation)					
B10800	Excavation + Blinding					
HPL Composite Panel Cladding System						
C10830	Casted-in Items Installation					
C10820	Fabrication of HPL Cladding					
104 DOH Screening Station, at Portion M						
C10470	Other BS + E & M Installation					
C10450	BS for Office Accommodations (KD9)					
C10440	Finishing					
C10430	Structure (Raft Foundation)					
C10400	Excavation + Blinding					
Facade Envelop Structure Installation						
D10455	Fabrication of F/C System					
D10450	Shop Drawing Submission and Approval					
203 - Outbound Coach/Shuttle Bus Exam Area & Mobile X-ray Operation Area						
ER5770	Radiation Screen Wall Construction					
External Works						
Additional Works (Filling & RE Slope), SA1						
ED3420	Fill Slope around C2 abutments					
ED3410	C2 Contractor to complete abutment at the North (2 nos.)					
ED3320	Fill Platform from +11.5PD to near PCB (South)					
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)					
Construction of Slopes						
ED3550	Construction of fill slope (North)					
ED3510	Footing for the Planter Wall, RE slope (North & West)					
ED3440	Construction of fill slope (Stage 2) (East)					

Actual Work

Remaining Work

Critical

◆ Milestone

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			02-Mar-17					
Activity ID		Activity Name	2017					
			Feb	Mar	Apr	May	Jun	
	ED3430	Construction of fill slope (Stage 1) (East)						
Drainage Works								
	ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)						
	ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)						
Waterpipe Laying								
	EW4390	Flushing Water Main Laying (13m), Stage 1 (Eastern)						
	EW4380	Fresh Water Main Laying (608m), Stage 1 (Eastern)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting								
	EU5450	Duct & Cable Laying for TCSS & Lighting						
Roadworks								
	ER4510	Rigid Pavement (750 m3) & Footpath, Stage 1 (Eastern)						
	ER4500	Bitumen Pavement (4500 ton), Stage 1 (Eastern)						
	ER4470	Subbase (4600 ton), Stage 1 (Eastern)						
Canopy and Covered Walkway								
	CC1400	Shop drawing, Approved & Fabrication						
PORTION N								
Portion N Structure								
Box Culvert B								
Bored Pile								
	SB0590	Box B - Foundation: Revised as pre-bored H-Piles						
	SB0560	Install H-piles						
Box Culvert Structure								
	SB0730	Box B - Outfall Structure						
	SB0722	Box B - Temporary Works for Construction of Outfall Structure						
	SB0720	Box B - Construction (Stage 2)						
	SB0710	Box B - Construction (Stage 1)						
Portion N Buildings								
104 DOH Screening Station, at Portion N								
	E10430	Other BS + E & M Installation						
	E10410	BS for Office Accommodations (KD9)						
	C10420	Finishing						
	C10410	Structure (Raft Foundation)						
	C10405	Excavation + Blinding (+ PL Test)						
Facade Envelop Structure Installation								
	D10415	Fabrication of F/C System						
	D10410	Shop Drawing Submission and Approval						
106 C&ED Detention Area Guard Booth								
	E10660	Other BS + E & M Installation						
	E10640	BS for Office Accommodations (KD9)						
	A10640	Finishing						
	A10610	Structure (Raft Foundation)						
	A10600	Excavation + Blinding						
Facade Envelop Structure Installation								
	B10615	Fabrication of F/C System						
	B10610	Shop Drawing Submission and Approval						
107 C&ED Mobile X-ray Operation Office, Portion N								
	A10750	Finishing (KD9)						
	A10740	Superstructure						
	A10710	Substructure (Raft Foundation)						
<div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical</div> <div><div></div> Milestone</div>			THREE MONTH ROLLING PROGRAMME			VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES		
			Page 18 of 20					
			Date	Revision		Checked	Approved	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			02-Mar-17																		
Activity ID	Activity Name	2017																			
		Feb	Mar	Apr	May	Jun															
PORTION N	A10700	Excavation + Blinding																			
	HPL Composite Panel Cladding System																				
	B10720	Fabrication of HPL Composite Panel System																			
	B10710	Shop Drawing Submission and Approval																			
	200 - Inbound/Outbound Vehicle Detection Area																				
	ER5810	Construction of the Area and Access to the Interface Contractor																			
	202 - Outbound Cargo Mobile X-ray Opeartion Area																				
	ER5790	Radiation Screen Wall Construction																			
	External Works for Portion N																				
	Works in Location 1.7A																				
	EU1540	ELV Works & T&C in Location 1.7A																			
	Drainage Works																				
	ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)																			
	ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)																			
	AS0150	Initial Survey																			
	Waterpipe Laying																				
	EW4540	Flushing Water Main Laying (413m)																			
	EW4530	Fresh Water Main Laying (641m)																			
	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting																				
EU5470	Duct & Cable Laying for TCSS & Lighting																				
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV																				
PORTION P																					
Portion Structure																					
Retaining Wall RW1																					
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)																				
Portion P Buildings																					
105 IMMD Guard Booth, Portion P																					
E10520	Other BS + E & M Installation																				
E10510	BS + E&M for Office Accommodation (KD10)																				
E10500	BS for Office Accommodations (KD9)																				
A10540	Finishing																				
A10530	On Grade Ground Slab																				
A10520	Substructure (Raft Foundation)																				
A10510	Excavation + Blinding																				
Facade Envelop Structure Installation																					
A10565	Fabrication of F/C System																				
A10560	Shop Drawing Submission and Approval																				
External Works for Portion P																					
Drainage Works																					
ED4790	Sewerage (269m & 7MHs)																				
ED4670	Drainage Works (2957m & 128MHs)																				
AS0160	Initial Survey																				
Waterpipe Laying																					
EW4690	Flushing Water Main Laying (455m)																				
EW4680	Fresh Water Main Laying (1270m)																				
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting																					
EU5640	Access date to Telephone Companies																				
Roadworks																					
ER4810	Rigid Pavement (220 m3), Footpath & EVA																				
<div><div>Actual Work</div><div>Remaining Work</div><div>Critical</div><div>Milestone</div></div>		THREE MONTH ROLLING PROGRAMME VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES Page 19 of 20			<table><tr><th>Date</th><th>Revision</th><th>Checked</th><th>Approved</th></tr><tr><td>31-Dec-16</td><td>3MRP updated as of 31 Dec. 2016</td><td>ZJ</td><td></td></tr><tr><td>01-Feb-17</td><td>3MRP updated as of 31 Jan. 2017</td><td>ZJ</td><td></td></tr><tr><td>28-Feb-17</td><td>3MRP updated as of 28 Feb. 2017</td><td>ZJ</td><td></td></tr></table>	Date	Revision	Checked	Approved	31-Dec-16	3MRP updated as of 31 Dec. 2016	ZJ		01-Feb-17	3MRP updated as of 31 Jan. 2017	ZJ		28-Feb-17	3MRP updated as of 28 Feb. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities			02-Mar-17				
Activity ID	Activity Name	2017					
		Feb	Mar	Apr	May	Jun	
ER4800	Bitumen Pavement (23958 ton)						
ER4770	Subbase (16519 ton)						
PORTION Q							
External Works for Portion Q							
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU1490	ELV System Installation for Contract HY/2013/04						
ED5580	Duct & Cable Laying for TCSS & Lighting						
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
Roadworks							
AS1820	C3-S2 Slope Construction						
AS1810	C3-S1 Slope Construction						
AS0170	Initial Survey						
PORTION R							
Portion R Building							
002 - C&ED Observation Guard Booth, Portion R							
D00230	Superstructure						
D00220	Raft Foundation						
D00210	Excavation + Blinding						
External Works for Portion R							
Drainage Works							
ED5080	Sewerage (272m & 7MHs)						
ED4960	Drainage Works (1040m & 70MHs)						
AS0180	Initial Survey						
Waterpipe Laying							
EW4980	Flushing Water Main Laying (222m)						
EW4970	Fresh Water Main Laying (614m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5610	ELV Installation						
EU5510	Duct & Cable Laying for TCSS & Lighting						
EU5500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
Landscape Works							
A5170	Design and Procurement for Irrigation System						

Actual Work

Remaining Work

Critical

Milestone

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

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Contract No.: HY/2013/06			Detail Work Programme										Page 1 of 14													
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
📁 Hong Kong-Zhuhai_Macao Bridge Hong Kong Boundary Crossir			1266	31-Jul-15 A	30-Jan-19	0																				30-Jan-19, H
📅 Key Dates			901	31-Jul-15 A	30-Jan-18	0																				30-Jan-18, Key Dates
📄 A1000	Acceptance of Contract	0	31-Jul-15 A																						Acceptance of Contract; 31-Jul-15 A	
📄 A1010	Commencement of Works	0	14-Aug-15*		0																				Commencement of Works; 14-Aug-15*	
📄 A1020	Excision of Phase 2 (Section II & III)	365	14-Aug-15	12-Aug-16	0																				Excision of Phase 2 (Section II & III)	
📄 A1120	KD1 (Phase 1 / Section I) (28 Kiosks)	0		24-Jul-17*	0																				KD1 (Phase 1 / Section I) (28 Kiosks),	
📄 A1470	KD2 (Phase 2 / Section II) (2 Kiosks)	0		02-Oct-17*	0																				KD2 (Phase 2 / Section II) (2 Kiosks),	
📄 A1480	KD3 (Phase 2 / Section III) (42 Kiosks)	0		30-Jan-18*	0																				KD3 (Phase 2 / Section III) (42 Kiosks),	
📅 Interface Activities			430	14-Aug-15	16-Oct-16	128																				16-Oct-16, Interface Activities
📄 A6860	Interface Management Plan Submission between C6 and C1	212	14-Aug-15	12-Mar-16	154																				Interface Management Plan Submission between C6 and C1	
📄 A6865	Interface Management Plan between C6 and C1 reviewed by Engineer	14	13-Mar-16	26-Mar-16	154																				Interface Management Plan between C6 and C1 reviewed by Engineer	
📄 A6870	Detailed Interface Document Submission between C6 and C1	30	27-Mar-16	25-Apr-16	154																				Detailed Interface Document Submission between C6 and C1	
📄 A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer	14	26-Apr-16	09-May-16	154																				Detailed Interface Document between C6 and C1 reviewed by Engineer	
📄 A6880	Interface Management Plan Submission between C6 and C3	262	14-Aug-15	01-May-16	76																				Interface Management Plan Submission between C6 and C3	
📄 A6885	Interface Management Plan between C6 and C3 reviewed by Engineer	14	02-May-16	15-May-16	76																				Interface Management Plan between C6 and C3 reviewed by Engineer	
📄 A6890	Detailed Interface Document Submission between C6 and C3	30	16-May-16	14-Jun-16	76																				Detailed Interface Document Submission between C6 and C3	
📄 A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer	14	15-Jun-16	28-Jun-16	76																				Detailed Interface Document between C6 and C3 reviewed by Engineer	
📄 A6900	Interface Management Plan Submission between C6 and C8	372	14-Aug-15	19-Aug-16	128																				Interface Management Plan Submission between C6 and C8	
📄 A6905	Interface Management Plan between C6 and C8 reviewed by Engineer	14	20-Aug-16	02-Sep-16	128																				Interface Management Plan between C6 and C8 reviewed by Engineer	
📄 A6910	Detailed Interface Document Submission between C6 and C8	30	03-Sep-16	02-Oct-16	128																				Detailed Interface Document Submission between C6 and C8	
📄 A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer	14	03-Oct-16	16-Oct-16	128																				Detailed Interface Document between C6 and C8 reviewed by Engineer	
📅 Site and Facility Inspection			424	26-Apr-16	23-Jun-17	586																				23-Jun-17, Site and Facility Inspection
📄 A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1	7	26-Apr-16*	02-May-16	154																				Pre Site and Facility Inspection by Contractor at Location 1 - Deg1	
📄 A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1	7	03-May-16	09-May-16	154																				Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1	
📄 A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1	7	25-Jun-16*	01-Jul-16	94																				Pre Site and Facility Inspection by Contractor at Location 2 - Deg1	
📄 A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1	7	02-Jul-16*	08-Jul-16	94																				Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1	
📄 A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2	7	14-Aug-16*	20-Aug-16	122																				Pre Site and Facility Inspection by Contractor at Location 2 - Deg2	
📄 A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2	7	21-Aug-16	27-Aug-16	122																				Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2	
📄 A4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation	7	21-Aug-16*	27-Aug-16	122																				Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation	
📄 A4780	Pre Site and Facility Inspection by Contractor at Location 3 - Deg1	7	03-Sep-16*	09-Sep-16	87																				Pre Site and Facility Inspection by Contractor at Location 3 - Deg1	
📄 A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1	7	10-Sep-16	16-Sep-16	87																				Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1	
📄 A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2	7	31-Jan-17*	06-Feb-17	0																				Pre Site and Facility Inspection by Contractor at Location 3 - Deg2	
📄 A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2	7	07-Feb-17	13-Feb-17	0																				Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2	
📄 A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1	7	03-Sep-16*	09-Sep-16	115																				Pre Site and Facility Inspection by Contractor at Location 3a - Deg1	
📄 A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1	7	10-Sep-16	16-Sep-16	115																				Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1	
📄 A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2	7	22-Nov-16*	28-Nov-16	70																				Pre Site and Facility Inspection by Contractor at Location 3a - Deg2	
📄 A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2	7	29-Nov-16	05-Dec-16	70																				Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2	
📄 A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation	7	29-Nov-16*	05-Dec-16	119																				Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation	
📄 A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1	7	11-Jan-17*	17-Jan-17	20																				Pre Site and Facility Inspection by Contractor at Location 4 - Deg1	
📄 A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1	7	18-Jan-17	24-Jan-17	20																				Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1	
📄 A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2	7	10-Jun-17*	16-Jun-17	586																				Pre Site and Facility Inspection by Contractor at Location 4 - Deg2	
📄 A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2	7	17-Jun-17	23-Jun-17	586																				Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2	
📄 A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1	7	11-Jan-17*	17-Jan-17	41																				Pre Site and Facility Inspection by Contractor at Location 4a - Deg1	
Programme No.: HZMB-DWP Data Date: 14-Aug-15						Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)						Date 14-Nov-16			Revision Rev.: 0		Checked WC		Approved LC							

Contract No.: HY/2013/06				Detail Work Programme										Page 2 of 14										
Activity ID	Activity Name			Original Duration	Start	Finish	Total Float	2015			2016			2017				2018				2019		3
								Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
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Contract No.: HY/2013/06			Detail Work Programme						Page 6 of 14														
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
	A4590 Installation of fencing post along the site boundary	3	02-Nov-15*	04-Nov-15	1183																		
	A4600 Excavation for underground drainage pipe	1	04-Nov-15*	04-Nov-15	1183																		
	A4610 Evenly spread the asphalt scrap material by backhoe	3	05-Nov-15*	07-Nov-15	1180																		
	A4620 Cast concrete for the u-channel and underground drainage pipe	1	05-Nov-15*	05-Nov-15	1182																		
	A4630 Remove the u-channel framework	1	06-Nov-15*	06-Nov-15	1181																		
	A4640 Installation of chain-link fencing along the site boundary	2	06-Nov-15*	07-Nov-15	1180																		
	A4650 Installation of access doors	1	07-Nov-15*	07-Nov-15	1180																		
	A4660 Excavation for drainage ditch	3	06-Nov-15*	09-Nov-15	1010																		
	A4670 Cast concrete for the drainage ditch	1	10-Nov-15*	10-Nov-15	1177																		
	A4680 Compact the asphalt scrap material	2	09-Nov-15*	10-Nov-15	1177																		
	A4690 Land surveying	1	11-Nov-15*	11-Nov-15	1174																		
	A4700 Inspection of chain-link fencing and access doors	1	12-Nov-15*	12-Nov-15	1174																		
	A4710 Testing of drains	1	13-Nov-15*	13-Nov-15	1174																		
	A4720 Completion of the works	0	14-Nov-15		1174																		
Detailed Design Specification		365	14-Aug-15	12-Aug-16	0	12-Aug-16, Detailed Design Specification																	
	A1808 Preliminary System Proposal Submission	28	14-Aug-15	10-Sep-15	0	Preliminary System Proposal Submission																	
	A1809 Engineer's agreement with preliminary system proposal	45	11-Sep-15	25-Oct-15	0	Engineer's agreement with preliminary system proposal																	
	A1810 Draft Detailed Design Specification (DDS) Submission	48	26-Oct-15	12-Dec-15	0	Draft Detailed Design Specification (DDS) Submission																	
	A1814 Draft Hardware Function Design Specification for Computer system and Network system (HFD)	48	26-Oct-15	12-Dec-15	0	Draft Hardware Function Design Specification for Computer system and Network system (HFD)																	
	A1815 Draft Software Function Design Specification for Computer system and Network system (SFD)	48	26-Oct-15	12-Dec-15	0	Draft Software Function Design Specification for Computer system and Network system (SFD)																	
	A1820 Engineer's Review and Approval for Draft Detailed Design Specification (DDS)	60	13-Dec-15*	10-Feb-16	0	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)																	
	A1823 Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)	60	13-Dec-15*	10-Feb-16	0	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)																	
	A1824 Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)	60	13-Dec-15*	10-Feb-16	0	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)																	
	A1829 Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)	29	01-Feb-16*	29-Feb-16	0	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)																	
	A1830 Final DDS Submission (AVCSS,VTS,VIDS)(Phase 1/Section I)	30	01-Mar-16	30-Mar-16	0	Final DDS Submission (AVCSS,VTS,VIDS)(Phase 1/Section I)																	
	A1831 Development of System Security Plan	49	11-Feb-16	30-Mar-16	0	Development of System Security Plan																	
	A1840 Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)	30	31-Mar-16	29-Apr-16	0	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)																	
	A1850 Final DDS Submission (AVCSS)(Phase 2/Section II&III)	60	30-Apr-16	28-Jun-16	0	Final DDS Submission (AVCSS)(Phase 2/Section II&III)																	
	A1860 Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)	45	29-Jun-16*	12-Aug-16	0	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)																	
Contruction Design and Management		60	07-May-16	05-Jul-16	52	05-Jul-16, Contruction Design and Management																	
	A6920 Construction Health and Safety Plan Submission	30	07-May-16*	05-Jun-16	52	Construction Health and Safety Plan Submission																	
	A6930 Construction Health and Safety Plan reviewed by Engineer	30	06-Jun-16	05-Jul-16	52	Construction Health and Safety Plan reviewed by Engineer																	
Supply/Manufacture Mock-up items		82	30-Apr-16	20-Jul-16	51	20-Jul-16, Supply/Manufacture Mock-up items																	
	A4749 Preparation of Kiosk equipment Mock-up	68	30-Apr-16	06-Jul-16	51	Preparation of Kiosk equipment Mock-up																	
	A4750 Installation of Kiosk equipment Mock-up	14	07-Jul-16	20-Jul-16	51	Installation of Kiosk equipment Mock-up																	
Supply/Manufacture prototypes		60	30-Apr-16	28-Jun-16	0	28-Jun-16, Supply/Manufacture prototypes																	
	A2900 Manufacture LED Display Prototype (VID, ODB and XDB)	60	30-Apr-16	28-Jun-16	0	Manufacture LED Display Prototype (VID, ODB and XDB)																	
	A2910 Manufacture All-In-One Panel Prototype (AIOP)	60	30-Apr-16	28-Jun-16	0	Manufacture All-In-One Panel Prototype (AIOP)																	
Software Design, Coding and Testing		407	11-Apr-16	22-May-17	0	22-May-17, Software Design, Coding and Testing																	

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<div><div></div> Actual Level of Effort</div> <div><div></div> Actual Work</div> <div><div></div> Remaining Work</div> <div><div></div> Critical Remaining Work</div> <div><div></div> Milestone</div> <div><div></div> summary</div>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)		Date	Revision	Checked	Approved
				14-Nov-16	Rev.: 0	WC	LC












































[illegible]

Contract No.: HY/2013/06			Detail Work Programme				Page 9 of 14																							
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3							
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2								
<div></div>	<div></div> A2093 VTS WS Installation	49	14-Feb-17	03-Apr-17	0									<div></div> VTS WS Installation																
	<div></div> A2094 VID WS Installation	49	14-Feb-17	03-Apr-17	0									<div></div> VID WS Installation																
	<div></div> A2096 SURCON, SYSCON, WS Tuning	49	04-Apr-17	22-May-17	0									<div></div> SURCON, SYSCON, WS Tuning																
	<div></div> Location 3a(Inbd Cargo Exam Bldg Main Server Room)	133	10-Jan-17	22-May-17	0									<div></div> 22-May-17, Location 3a(Inbd Cargo Exam Bldg Main Server Room)																
	<div></div> A3330 Cable Laying and termination in Location 3 and Location 3a	35	10-Jan-17	13-Feb-17	0									<div></div> Cable Laying and termination in Location 3 and Location 3a																
	<div></div> A3340 AVCSS Server Installation	30	04-Apr-17	03-May-17	0									<div></div> AVCSS Server Installation																
	<div></div> A3350 VTS Server Installation	30	04-Apr-17	03-May-17	0									<div></div> VTS Server Installation																
	<div></div> A3360 Servers Tuning	19	04-May-17	22-May-17	0									<div></div> Servers Tuning																
	<div></div> Location 4(Outbd Cargo Exam Bldg (023) MDF Room)	21	14-Feb-17	06-Mar-17	0									<div></div> 06-Mar-17, Location 4(Outbd Cargo Exam Bldg (023) MDF Room)																
	<div></div> A3410 Cable Laying and termination between CUE and Location 4	21	14-Feb-17	06-Mar-17	0									<div></div> Cable Laying and termination between CUE and Location 4																
	<div></div> Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)	77	07-Mar-17	22-May-17	0									<div></div> 22-May-17, Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)																
	<div></div> A3370 Cable Laying and termination in Location 4 and 4a	35	07-Mar-17	10-Apr-17	0									<div></div> Cable Laying and termination in Location 4 and 4a																
	<div></div> A3380 AVCSS SYSCON, SURCON and Intercom Installation	14	05-May-17	18-May-17	0									<div></div> AVCSS SYSCON, SURCON and Intercom Installation																
	<div></div> A3390 VTS WS Installation	14	05-May-17	18-May-17	0									<div></div> VTS WS Installation																
	<div></div> A3400 SYSCON, SURCON, WS Tuning	4	19-May-17	22-May-17	0									<div></div> SYSCON, SURCON, WS Tuning																
	<div></div> Location 5(Common Utility Enclosure & Staff Subway)	131	13-Sep-16	21-Jan-17	68									<div></div> 21-Jan-17, Location 5(Common Utility Enclosure & Staff Subway)																
	<div></div> A3430 Cable Laying between Location 5 and Location 7	28	13-Sep-16	10-Oct-16	0									<div></div> Cable Laying between Location 5 and Location 7																
	<div></div> A3440 Cable Laying between Location 5 and Location 6	28	15-Nov-16	12-Dec-16	0									<div></div> Cable Laying between Location 5 and Location 6																
	<div></div> A3480 ODB Switch Installation at EL Room 2-7	14	08-Jan-17	21-Jan-17	68									<div></div> ODB Switch Installation at EL Room 2-7																
	<div></div> Location 6(Common Utility Enclosure & Staff Subway)	42	15-Nov-16	26-Dec-16	94									<div></div> 26-Dec-16, Location 6(Common Utility Enclosure & Staff Subway)																
	<div></div> A3450 Cable Laying between Location 5 and Location 6	28	15-Nov-16	12-Dec-16	0									<div></div> Cable Laying between Location 5 and Location 6																
	<div></div> A3490 ODB Switch Installation at EL Room 8-9,11-12	14	13-Dec-16	26-Dec-16	94									<div></div> ODB Switch Installation at EL Room 8-9,11-12																
	<div></div> Location 7(Common Utility Enclosure & Staff Subway)	28	13-Sep-16	10-Oct-16	0									<div></div> 10-Oct-16, Location 7(Common Utility Enclosure & Staff Subway)																
	<div></div> A3470 Cable Laying between Location 5 and Location 7	28	13-Sep-16	10-Oct-16	0									<div></div> Cable Laying between Location 5 and Location 7																
	<div></div> Location 12(Inbd Private Car Kiosks,GV Kiosks (027,028,029))	195	17-Sep-16	31-Mar-17	0									<div></div> 31-Mar-17, Location 12(Inbd Private Car Kiosks,GV Kiosks (027,028,029))																
	<div></div> Inbd Private Car Kiosks(027) - 9 nos (Phase 1)	134	11-Oct-16	22-Feb-17	0									<div></div> 22-Feb-17, Inbd Private Car Kiosks(027) - 9 nos (Phase 1)																
	<div></div> A2452 Cable Containment in Kiosks	14	11-Oct-16	24-Oct-16	0									<div></div> Cable Containment in Kiosks																
	<div></div> A2453 Cable Laying and termination	10	25-Oct-16	03-Nov-16	0									<div></div> Cable Laying and termination																
	<div></div> A2454 Cable Splicing, Testing and Labeling	65	04-Nov-16	07-Jan-17	0									<div></div> Cable Splicing, Testing and Labeling																
	<div></div> A2460 AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)	45	08-Jan-17	21-Feb-17	0									<div></div> AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																
<div></div> A2470 ODB & XDB installation (9 nos)	16	06-Feb-17	21-Feb-17	0									<div></div> ODB & XDB installation (9 nos)																	
<div></div> A4380 Inbd Private Car Kiosk Installation Complete	0	22-Feb-17		0									<div></div> Inbd Private Car Kiosk Installation Complete, 22-Feb-17																	
<div></div> Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)	195	17-Sep-16	31-Mar-17	0									<div></div> 31-Mar-17, Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)																	
<div></div> A2532 Cable Containment in Kiosks	14	17-Sep-16	30-Sep-16	0									<div></div> Cable Containment in Kiosks																	
<div></div> A2533 Cable Laying and termination	10	01-Oct-16	10-Oct-16	0									<div></div> Cable Laying and termination																	
<div></div> A2534 Cable Splicing, Testing and Labeling	134	11-Oct-16	21-Feb-17	0									<div></div> Cable Splicing, Testing and Labeling																	
<div></div> A2540 AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)	37	22-Feb-17	30-Mar-17	0									<div></div> AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																	
<div></div> A2550 AIOP Installation (5 nos)	37	22-Feb-17	30-Mar-17	0									<div></div> AIOP Installation (5 nos)																	
<div></div> A2560 ODB & XDB installation (5 nos)	37	22-Feb-17	30-Mar-17	0									<div></div> ODB & XDB installation (5 nos)																	
<div></div> A4390 Inbd Goods Vehicle Kiosks Installation Complete	0	31-Mar-17		0									<div></div> Inbd Goods Vehicle Kiosks Installation Complete, 31-Mar-17																	
<div></div> Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)	147	04-Nov-16	31-Mar-17	0									<div></div> 31-Mar-17, Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																	
<div></div> A2572 Cable Containment in Kiosks	14	04-Nov-16	17-Nov-16	0									<div></div> Cable Containment in Kiosks																	
<div></div> A2573 Cable Laying and termination	10	18-Nov-16	27-Nov-16	0									<div></div> Cable Laying and termination																	
<div></div> A2574 Cable Splicing, Testing and Labeling	41	28-Nov-16	07-Jan-17	0									<div></div> Cable Splicing, Testing and Labeling																	
<div></div> A2580 AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)	37	08-Jan-17	13-Feb-17	0									<div></div> AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																	

Programme No.: HZMB-DWP Data Date: 14-Aug-15	 Actual Level of Effort  Actual Work  Remaining Work  Critical Remaining Work  Milestone  summary	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)		Date	Revision	Checked	Approved
				14-Nov-16	Rev.: 0	WC	LC

Contract No.: HY/2013/06					Detail Work Programme										Page 10 of 14											
Activity ID		Activity Name			Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		
									Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
															</											

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Activity ID	Activity Name		Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3												
							Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2																	
<div></div>	<div></div> A4140	Outbound VID field equipment installation (8 VID)	32	03-Apr-17	04-May-17	0																														
	<div></div> A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)	16	11-Apr-17	26-Apr-17	0																														
	<div></div> A4170	Outbound TLS field equipment installation (4 TLS)	8	27-Apr-17	04-May-17	0																														
	<div></div> A4180	Outbound VID, VTS and TLS field equipment tuning	18	05-May-17	22-May-17	0																														
	<div></div>	Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE		35	08-Jan-17	11-Feb-17	0																													
	<div></div> A3810	Cable Laying and termination (note: Access Date by C03)	35	08-Jan-17	11-Feb-17	0																														
	<div></div>	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza		26	12-Feb-17	09-Mar-17	0																													
	<div></div> A3830	Cable Laying and termination (note: Access Date by C03)	26	12-Feb-17	09-Mar-17	0																														
	<div></div>	Underground Ducting between CUE and Outbd Car Exam Bldg (023)		24	10-Mar-17	02-Apr-17	0																													
	<div></div> A3850	Cable Laying and termination (note: Access Date by C03)	24	10-Mar-17	02-Apr-17	0																														
	<div></div>	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza		24	03-Apr-17	26-Apr-17	0																													
	<div></div> A3870	Cable Laying and termination (note: Access Date by C03)	24	03-Apr-17	26-Apr-17	0																														
	<div></div>	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza		26	27-Apr-17	22-May-17	0																													
	<div></div> A3890	Cable Laying and termination (note: Access Date by C03)	26	27-Apr-17	22-May-17	0																														
	<div></div>	On-Site Test and Commissioning (Phase 1 / Section I)		128	15-Jan-17	22-May-17	0																													
	<div></div> A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)	30	15-Jan-17*	13-Feb-17	84																														
	<div></div> A2151	Engineer Approval for T&C Document	14	14-Feb-17	27-Feb-17	84																														
	<div></div> A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing	14	17-Mar-17*	30-Mar-17	0																														
	<div></div> A2153	Initial on-site Testing & Commissioning	53	31-Mar-17	22-May-17	0																														
	<div></div>	Site Acceptance Test (Phase 1 / Section I)		94	17-Apr-17	19-Jul-17	0																													
	<div></div> A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMD (AVS)	36	17-Apr-17*	22-May-17	0																														
	<div></div> A6602	SAT for AVCSS	28	23-May-17	19-Jun-17	0																														
	<div></div> A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)	5	30-Jun-17	04-Jul-17	0																														
	<div></div> A6630	SAT Test Document Submission	30	20-Jun-17	19-Jul-17	0																														
	<div></div> A6640	Software Manual Documentations Submission	30	20-Jun-17	19-Jul-17	0																														
	<div></div>	Security Risk Assessment and Audit		58	23-May-17	19-Jul-17	0																													
	<div></div> A6800	SRAA (Assessment)	9	23-May-17	31-May-17	0																														
	<div></div> A6810	Fix per SRAA Assessment	40	01-Jun-17	10-Jul-17	0																														
	<div></div> A6820	SRAA Audit	9	11-Jul-17	19-Jul-17	0																														
	<div></div>	Operability Period Test (Phase 1 / Section I)		37	13-Jun-17	19-Jul-17	0																													
	<div></div> A5610	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT	7	13-Jun-17*	19-Jun-17	0																														
	<div></div> A5620	Operability Period Test (OPT) Phase 1	15	20-Jun-17	04-Jul-17	0																														
	<div></div> A5650	Operability Period Test (OPT) Phase 2	15	05-Jul-17	19-Jul-17	0																														
	<div></div>	Completion (Phase 1 /Section I)		5	20-Jul-17	24-Jul-17	0																													
	<div></div> A2230	AVCSS - Certificate of Completion (Phase 1/Section I)	5	20-Jul-17	24-Jul-17	0																														
	<div></div> A2231	Certificate of Completion Approval by Engineer	0		24-Jul-17	0																														
	<div></div>	Training and Document (Phase 1 /Section I)		140	21-Feb-17	10-Jul-17	14																													
	<div></div> A2180	Training Materials & Documentation Submission	30	21-Feb-17*	22-Mar-17	14																														
	<div></div> A2190	Operation and Maintenance Training	110	23-Mar-17	10-Jul-17	14																														
	<div></div>	Operation (Phase 1 /Section I)		0	25-Jul-17	25-Jul-17	0																													
	<div></div> A2240	Site Operation (Phase 1/Section I)	0	25-Jul-17		0																														
	<div></div>	Engineering Support for Phase 1 / Section I		190	25-Jul-17	30-Jan-18	0																													
Programme No.: HZMB-DWP			<div></div> Actual Level of Effort <div></div> Actual Work <div></div> Remaining Work <div></div> Critical Remaining Work <div></div> Milestone <div></div> summary			Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)			<div></div> ATAL									Date	Revision	Checked	Approved															
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
 A4420	Engineering Support for Phase 1/Section I	190	25-Jul-17	30-Jan-18	0																		
	Procurement - Phase 2 / Section II	91	13-Aug-16	11-Nov-16	0																		
 A3980	Procurement of Lane Field Equipment for Phase 2/Section II	91	13-Aug-16	11-Nov-16	0																		
	Delivery and Bench Acceptance Test for Phase 2/Section II	28	12-Nov-16	09-Dec-16	74																		
 A6760	Material On-site for Phase 2/Section II	14	12-Nov-16	25-Nov-16	74																		
 A6770	Bench Acceptance Test for Phase 2/Section II	14	26-Nov-16	09-Dec-16	74																		
	Instatllation - Phase 2 / Section II	171	30-Dec-16	19-Jun-17	0																		
	Location 8(Inbd Pricate Car Annex (025)) (Phase 2)	156	30-Dec-16	04-Jun-17	0																		
 A4090	Site Preparation	10	30-Dec-16	08-Jan-17	54																		
 A4091	Cable Containment in Kiosks	8	09-Jan-17	16-Jan-17	54																		
 A4093	Cable Laying and termination	8	17-Jan-17	24-Jan-17	54																		
 A4094	Cable Splicing, Testing and Labeling	30	25-Jan-17	23-Feb-17	71																		
 A4096	Mobilization of kiosk equipment	10	24-Feb-17	05-Mar-17	71																		
 A4100	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	19	16-May-17	03-Jun-17	0																		
 A4430	Inbd Private Car Annex Installation Complete	0	04-Jun-17		0																		
	Location 9(Outbd Private Car Annex (032)) (Phase 2)	145	25-Jan-17	19-Jun-17	0																		
 A4151	Site Preparation	10	25-Jan-17	03-Feb-17	54																		
 A4152	Cable Containment in Kiosks	8	04-Feb-17	11-Feb-17	54																		
 A4153	Cable Laying and termination	8	12-Feb-17	19-Feb-17	54																		
 A4154	Cable Splicing, Testing and Labeling	30	20-Feb-17	21-Mar-17	54																		
 A4156	Mobilization of kiosk equipment	20	22-Mar-17	10-Apr-17	54																		
 A4160	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	15	04-Jun-17	18-Jun-17	0																		
 A4440	Outbd Private Car Annex Installation Complete	0	19-Jun-17		0																		
	Test and Commissioning (Phase 2 / Section II)	145	06-May-17	27-Sep-17	0																		
 A2290	Testing & Commissioning Documents Submission	30	06-May-17*	04-Jun-17	0																		
 A2291	Engineer Approval for T&C Document	14	05-Jun-17	18-Jun-17	0																		
 A2292	Initial on-site Testing & Commissioning	31	19-Jun-17	19-Jul-17	0																		
 A2300	Site Acceptance Tests (SAT)	40	20-Jul-17	28-Aug-17	0																		
 A2310	Operability Period Test (OPT)	30	29-Aug-17	27-Sep-17	0																		
	Completion (Phase 2 / Section II)	5	28-Sep-17	02-Oct-17	0																		
 A2320	AVCSS - Certificate of Completion (Phase 2/Section II)	5	28-Sep-17	02-Oct-17	0																		
 A4320	Certificate of Completion Approval by Engineer	0		02-Oct-17	0																		
	Engineering Support for Phase 2 / Section II	120	03-Oct-17	30-Jan-18	0																		
 A4450	Engineering Support for Phase 2/Section II	120	03-Oct-17	30-Jan-18	0																		
	Procurement for Phase2 / Section III	91	13-Aug-16	11-Nov-16	0																		
 A4000	Procurement of Lane Field Equipment for Phase 2/Section III	91	13-Aug-16	11-Nov-16	0																		
	Delivery and Bench Acceptance Test for Phase2 / Section III	14	12-Nov-16	25-Nov-16	0																		
 A6780	Material On-site for Phase 2/Section III	7	12-Nov-16	18-Nov-16	0																		
 A6790	Bench Acceptance Test for Phase 2/Section III	7	19-Nov-16	25-Nov-16	0																		
	Installation - Phase 2 / Section III	223	26-Nov-16	07-Jul-17	0																		
	Location 10,11,12,13 (Vehicle Clearance Kiosks)	223	26-Nov-16	07-Jul-17	0																		
	Shuttle Bus Kiosks (006) - 4 nos (Phase 2)	70	14-Feb-17	25-Apr-17	0																		
 A2622	Cable Containment	20	14-Feb-17	05-Mar-17	0																		

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Data Date: 14-Aug-15

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

summary

Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing

Facilities - Automatic Vehicle

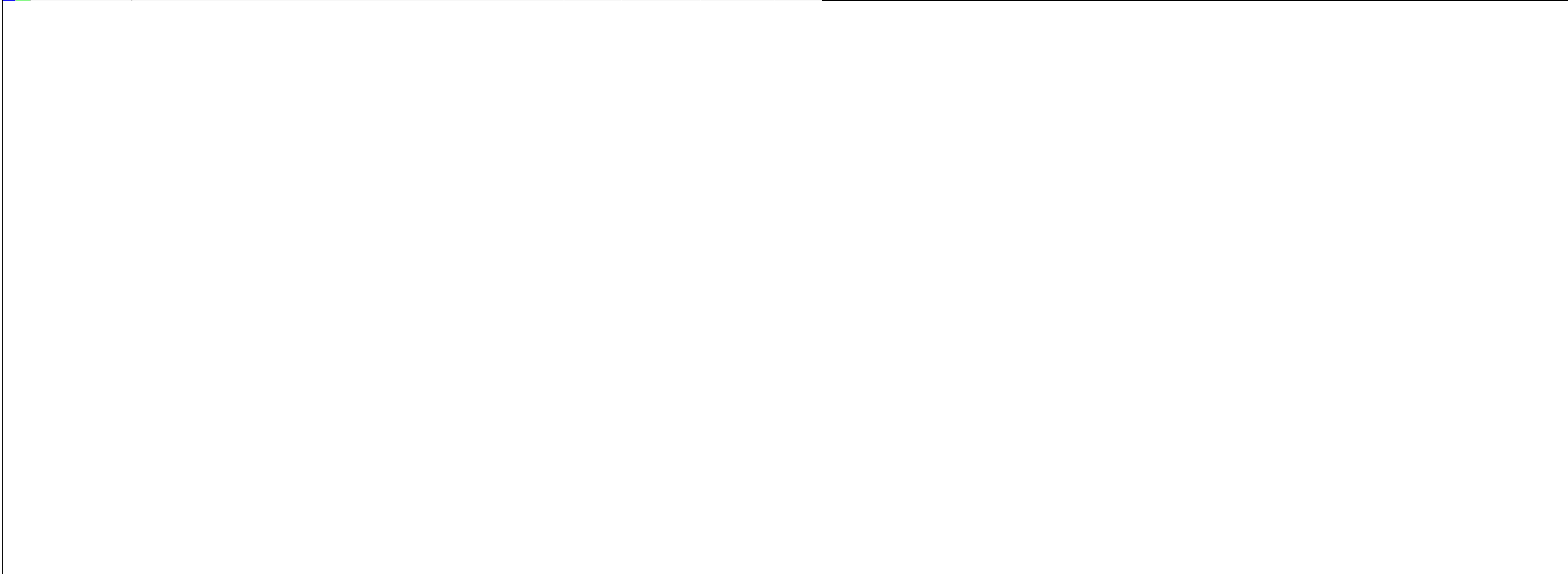
Clearance Support System (AVCSS)

ATAL

Date	Revision	Checked	Approved
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Contract No.: HY/2013/06			Detail Work Programme										Page 13 of 14										
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019		3
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> 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Report No.: 0165/15/ED/0739

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC,ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

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Appendix E

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix E – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	V
Construction Noise (Air borne)				
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V
Sediment				
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Management (Construction Waste)				
S8.3.8	WM1	Construction and Demolition Material The following mitigation measures should be implemented in handling the waste: <ul style="list-style-type: none"> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		disposal sites to the Project Proponent and get its approval before implementation		
S8.3.9-S8.3.11	WM2	<u>C&D Waste</u> <ul style="list-style-type: none"> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	All construction sites	V
S8.2.12-S8.3.15	WM3	<u>Chemical Waste</u> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	All construction sites	V
S8.3.16	WM4	<u>Sewage</u> <ul style="list-style-type: none"> Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	All construction sites	V
S8.3.17	WM5	<u>General Refuse</u> <ul style="list-style-type: none"> General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>law.</p> <ul style="list-style-type: none"> Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 		
Water Quality (Construction Phase)				
S9.11.1.7	W2	<p><u>Land Works</u></p> <p>General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; the section of construction road between the wheel 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>washing bay and the public road should be surfaced with crushed stone or coarse gravel;</p> <ul style="list-style-type: none"> wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 		
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E8	<ul style="list-style-type: none"> Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; Providing planting area around peripheral of HKBCF for tree planting screening effect; Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and <ul style="list-style-type: none"> • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 		
Landscape & Visual (Construction Phase)				
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.	HKBCF	N/A
S14.3.3.3	LV3	<u>Mitigate Visual Impacts</u> V1. Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	All construction sites	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The "Material" part is in a lighter weight, and the "Lab" part is in a bolder weight. The logo is set against a background of two horizontal black bars, one above and one below the text.

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Appendix F

Site Audit Findings and Corrective Actions

Report No.: 0165/15/ED/0739

Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, 13 site inspections were carried out on 02, 08, 15, 22 and 29 December 2016, and 05, 12, 20 and 26 January 2017, and 02, 09, 16 and 24 February 2017 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area).

Particular observations during the site inspections are described below.

For Contract No. HY/2013/03**25 Nov 2016**

1. CHEC was reminded to provide drip tray for chemical containers at CUE works area. Subsequently, chemical containers were removed at CUE works area. The observation was closed on 02 December 2016.
2. CHEC was reminded to remove stagnant water accumulated at Building 037 and Bridge A7 area. Subsequently, stagnant water was cleared at Building 037 and Bridge A7 area. The observation was closed on 02 December 2016.
3. CHEC was reminded to enhance watering for dusty operation at Bridge A7 area. Subsequently, watering was increased at Bridge A7 area. The observation was closed on 02 December 2016.

02 Dec 2016

1. CHEC was reminded to remove stagnant water accumulated at CUE works area. Subsequently, stagnant water was cleared at CUE works area. The observation was closed on 08 December 2016.
2. CHEC was reminded to remove general refuse accumulated at CUE works area and building 026. Subsequently, general refuse was removed at CUE works area and Building 026. The observation was closed on 08 December 2016.

08 Dec 2016

1. CHEC was reminded to provide drip trays for chemical containers at Building 035. Subsequently, chemical containers were removed at Building 035. The observation was closed on 15 December 2016.
2. CHEC was reminded to remove general refuse accumulated at CUE works area. Subsequently, general refuse was removed at CUE works area. The observation was closed on 15 December 2016.
3. CHEC was reminded to remove stagnant water accumulated at the beams at 035 Building. Subsequently, stagnant water was cleared at the beams at 035 Building. The observation was closed on 15 December 2016.

15 Dec 2016

1. CHEC was reminded to remove general refuse accumulated at CUE works area and STP works area. Subsequently, general refuse was removed at CUE works area and STP works area. The observation was closed on 22 December 2016.
2. CHEC was reminded to provide drip trays for chemical containers at STP works area. Subsequently, chemical containers were removed at STP works area. The observation was closed on 22 December 2016.

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3. CHEC was reminded to increase watering for dust suppression at STP works area. Subsequently, watering was increased at STP works area. The observation was closed on 22 December 2016.
4. CHEC was reminded to provide drip trays for generators and air compressors at STP works area. Subsequently, generators and air compressors were removed at STP works area. The observation was closed on 22 December 2016.

22 Dec 2016

1. CHEC was reminded to remove general refuse accumulated at Building 026. Subsequently, general refuse was removed at Building 026. The observation was closed on 29 December 2016.

29 Dec 2016

1. CHEC was reminded to remove stagnant water accumulated at CUE works area and Building 037. Subsequently, stagnant water was removed from CUE works area and Building 037. The observation was closed on 05 January 2017.
2. CHEC was reminded to increase watering for dust suppression at STP area. Subsequently, watering was increased at STP area. The observation was closed on 05 January 2017.
3. CHEC was reminded to remove general refuse on site. Subsequently, general refuse was removed on site. The observation was closed on 05 January 2017.

05 Jan 2017

1. CHEC was reminded to remove stagnant water accumulated at trays at CUE works area. Subsequently, stagnant water was removed from the trays at CUE works area. The observation was closed on 12 January 2017.
2. CHEC was reminded to remove general refuse accumulated at CUE works area. Subsequently, general refuse was removed from CUE works area. The observation was closed on 12 January 2017.

12 Jan 2017

1. CHEC was reminded to remove general refuses at Building 057 and 049. Subsequently, general refuse was removed from Building 057 and 049. The observation was closed on 20 January 2017.
2. CHEC was reminded to remove stagnant water accumulated at drip tray for chemical containers at Building 049. Subsequently, stagnant water was cleared from drip tray for chemical containers at Building 049. The observation was closed on 20 January 2017.
3. CHEC was reminded to remove food waste on site. Subsequently, food waste was removed on site. The observation was closed on 20 January 2017.

20 Jan 2017

1. CHEC was reminded to remove general refuse accumulated at A2 Bridge. Subsequently, general refuse was removed from A2 Bridge. The observation was closed on 26 January 2017.

26 Jan 2017

1. CHEC was reminded to improve housekeeping at CUE works area and STP works area. Subsequently, housekeeping was improved at CUE works area and STP works area. The observation was closed on 02 February 2017.
2. CHEC was reminded to remove chemical container at STP works area. Subsequently, chemical container was removed at STP works area. The observation was closed on 02 February 2017.

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3. CHEC was reminded to remove stagnant water at drip tray for generator at STP works area. Subsequently, stagnant water at drip tray for generator was removed at STP works area. The observation was closed on 02 February 2017.
4. CHEC was reminded to remove stagnant water at Building 037. Subsequently, stagnant water at Building 037 was removed. The observation was closed on 02 February 2017.

02 Feb 2017

1. CHEC was reminded to clean the general refuse at CUE works area and Building 037. Subsequently, the general refuse at CUE works area and Building 037 was removed. The observation was closed on 09 February 2017.
2. CHEC was reminded to clean the food waste at Building 037 and 040. Subsequently, the food waste at Building 037 and 040 was removed. The observation was closed on 09 February 2017.

09 Feb 2017

1. CHEC was reminded to remove stagnant water at CUE works area. Subsequently, stagnant water at CUE works area was removed. The observation was closed on 16 February 2017.
2. CHEC was reminded to clean the general refuse at CUE works area. Subsequently, the general refuse at CUE works area was removed. The observation was closed on 16 February 2017.

16 Feb 2017

1. CHEC was reminded to remove stagnant water accumulated at Building 037. Subsequently, stagnant water at Building 037 was removed. The observation was closed on 24 February 2017.
2. CHEC was reminded to increase watering at hard roads at CUE works area. Subsequently, watering was increased at hard roads at CUE works area. The observation was closed on 24 February 2017.

24 Feb 2017

1. CHEC was reminded to provide drip tray for chemical containers. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. CHEC was reminded to provide maintenance for a generator in A8 Bridge which emitted smoke. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
3. CHEC was reminded to remove stagnant water onsite. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
4. CHEC was reminded to remove general refuse accumulated at Box Culvert B. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

02 Dec 2016

1. Nil findings.

08 Dec 2016

1. Nil findings.

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15 Dec 2016

1. Nil findings.

22 Dec 2016

1. Nil findings.

29 Dec 2016

1. Nil findings.

05 Jan 2017

1. Nil findings.

12 Jan 2017

1. Nil findings.

20 Jan 2017

1. Nil findings.

26 Jan 2017

1. Nil findings.

02 Feb 2017

1. Nil findings.

09 Feb 2017

1. Nil findings.

16 Feb 2017

1. Nil findings.

24 Feb 2017

1. Nil findings.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting period. Follow-up actions for outstanding observations will be inspected during the next site inspections.

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Appendix G

Waste Flow Table



Monthly Summary of Waste Flow Table for 2016 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(see Note 1)						(see Note 2)		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)
Jan	0.000	0	0	0	0.000	0	0.992	0	0	0.073
Feb	0.000	0	0	0	0.000	0	0	0	0	0.093
Mar	0.087	0	0	0	0.087	0	0.392	0	0	0.200
Apr	0.184	0	0	0	0.184	0	0.411	0	0	0.224
May	0.203	0	0	0	0.203	0	0	0	0	0.293
Jun	0.244	0	0	0	0.244	0	0.413	0	0	0.322
Jul	2.429	0	0	0	2.429	0	0.419	0	0	0.312
Aug	0.057	0	0	0	0.057	0	0.340	0	0	0.288
Sept	0.000	0	0	0	0.000	0	0	0	0	0.327
Oct	0.379	0	0	0	0.379	0	0.400	0	0	0.332
Nov	0.229	0	0	0	0.229	0	0.389 ⁽³⁾	0	0	0.644
Dec	0.161	0	0	0	0.161	0	0.406	0	0	0.663
Total	3.973	0.000	0.000	0.000	3.973	0.000	4.162	0.000	0.000	3.771

Notes:

(1) Broken concrete for recycling into aggregates.

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

(3) 0.389 (in '000 Kg) of paper/cardboard packaging was updated compared to previous monthly report.



Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(see Note 1)						(see Note 2)		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)
Jan	0.000	0	0	0	0.000	0	0	0	0	0.580
Feb	0.000	0	0	0	0.000	0	0	0	0	0.585
Mar										
Apr										
May										
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.165

Notes:

(1) Broken concrete for recycling into aggregates.

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

Monthly Summary of Excavated Marine Sediment for 2016 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	1.950	0	0	1.950
Feb	2.328	0	0	2.328
Mar	2.464	0	0	2.464
Apr	5.602	0	0	5.602
May	0	0	0	0
Jun	4.584	0	0	4.584
Jul	10.728	0	0	10.728
Aug	1.544	0	0	1.544
Sep	6.816	0	0	6.816
Oct	2.376	0	0	2.376
Nov	0	0	0	0
Dec	2.792 (Cat.L)	0	0	2,792 (Cat.L)
	4.960	0	0	4.960
Total	46.144	0.000	0.000	46.144

Note: All sediments are in Type II disposal method except Cat L (in Type I)

Monthly Summary of Excavated Marine Sediment for 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	0.656	0	0	0.656
Feb	0.264	0	0	0.264
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	0.920	0.000	0.000	0.920

Monthly Summary Waste Flow Table



Project name 工程項目名稱 :Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Automatic Vehicle Clearance Support System

Location 工程地點:Artificial Island of HKIAP

Year:2016

Month	Inert C&D Waste disposal 墮性廢物(in tonnes) (see Note 1)						Non-inert C&D Waste disposal / 非墮性廢物 (in tonnes)		Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated / 總生產量		
	Reused in the Work Package (e.g. backfilling) / 再用於工程 (如回填)		Reused in other Projects / 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) / 墮性廢物(如泥, 石, 填料等)		Others, (e.g. general refuse, broken formwork etc) / 其他 (如垃圾, 廢板枋等)		Metals / 金屬		Plastic / 塑膠		Paper/cardboard packaging / 廢紙/包裝紙類		Chemical Waste / 化學廢物				
	(b)		(c)		(d)		(e)		(in tonnes)		(in tonnes)		(in tonnes)		(in litre)		(a)= (b+c+d+e)		
	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	Est./ 估計數量)	Act./ (實際數量)	
January																			
February																			
March																			
April																			
May																			
June																			
July																			
August																			
September	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
October	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
November	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002(2)	0.002(2)	N/A	N/A	0.002	0.002
December	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.008	0.000	0.000	0.008	0.008

Notes: (1) The quantities of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.
(2) 0.002 (in tonnes) of paper/cardboard packaging was updated compared to previous monthly report.



ATAL Technologies Ltd.

Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System

Location: Artificial Island of HKIAP (C3 Area)

Ver: 1st
Date: Jan 2017

Monthly Summary Waste Flow Table for 2017

Month	Inert C&D Waste disposal / 墮性廢物 (in tonnes) (see Note 1)						Non-inert C&D Waste disposal 非墮性廢物 (in tonnes)		Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量		
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 墮性廢物 (如泥, 石矢頭, 石, 填料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物				
	(b)		(c)		(d)		(e)		(in tonnes)		(in tonnes)		(in tonnes)		(in litre)		(a)= (b+c+d+e)		
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.002	0.002
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.002	0.002
March																			
April																			
May																			
June																			
July																			
August																			
September																			
October																			
November																			
December																			
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.004	0.000	0.000	0.004	0.004

Notes: (1) The quantiles of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m3, with the density of the soil, which is 1.5 gcm⁻³.

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The "Material" part is in a lighter weight, and the "Lab" part is in a bolder weight. The logo is set against a background of two thick horizontal black bars, one above and one below the text.

Report No.: 0165/15/ED/0739

Appendix H

Environmental Licenses and Permits

Appendix H - Environmental Permit / Licences Summary for Contract No. HY/2013/03

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
9	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0933-16	Main Site Area	18-Aug-16	01-Sep-16	05-Sep-16	31-Dec-16	Valid Until 31-Dec-16	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0960-16	Main Site Area	06-Sep-16	15-Sep-16	19-Sep-16	18-Dec-16	Valid Until 18-Dec-16	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	Portion A, G, H & N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1267-16	Main Site Area	02-Dec-16	16-Dec-16	19-Dec-16	18-Mar-17	Valid	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1329-16	Main Site Area	09-Dec-16	23-Dec-16	01-Jan-17	30-Apr-17	Valid	
15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-132	East of Sha Chau (CMP Vd)	03-Nov-16	30-Nov-16	05-Dec-16	04-Jan-17	Valid from 05-Dec-16 to 04-Jan-17	

16	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-140	East of Sha Chau (CMP Va) or South of Brothers (CMP2)	14-Nov-16	30-Nov-16	30-Nov-16	29-Dec-16	Valid until 29-Dec-16	
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-146	East of Sha Chau (CMP Va) or South of Brothers (CMP2)	25-Nov-16	16-Dec-16	16-Dec-16	29-Dec-16	Valid from 16-Dec-16 to 29-Dec-16	
18	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-161	East of Sha Chau (CMP Vd)	15-Dec-16	04-Jan-17	05-Jan-17	04-Feb-17	Valid Until 04-Feb-17	
19	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-170	East of Sha Chau (CMP Vd)	12-Jan-17	24-Jan-17	05-Feb-17	04-Mar-17	Valid until 04-Mar-17	

Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	#

The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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Appendix I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Report No.: 0165/15/ED/0739

Appendix I –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/03

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	2	0	0
From commencement date of construction to end of reporting period	5	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	0	0	0