

Ref.: HYDHZMBEEM00\_0\_3287L.15

14 August 2015

By Fax (3468 2076) and By Post

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

Attention: Mr. Alfred Cheng

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/2013/04 - HZMB HKBCF - Infrastructure Works Stage II

(Southern Portion)

Monthly Environmental Monitoring & Audit Report for July 2015

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for July 2015 certified by the ET Leader (ET's ref.: "JFP/TK/bw/T355861/02/02/L025" dated 14 August 2015) and provided to us via e-mail on 14 August 2015.

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 Condition 5.4 of the Environmental Permit No. EP-353/2009/I.

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

Pary

Independent Environmental Checker

c.c. HyD Mr. Matthew Fung (By Fax: 3188 6614)
HyD Mr. Horace Hong (By Fax: 3188 6614)
Mott MacDonald Mr. Terence Kong (By Fax: 2827 1823)
CSCE Mr. Eddie Tang (By Fax: 2459 4336)

Internal: DY, YH, LP, CL, ENPO Site

 $\label{thm:corr} Q:\Projects\HYDHZMBEEM00\O2\_Proj\_Mgt\O2\_Corr\HYDHZMBEMM00\_0\_3287L.15.doc$ 



Our ref JFP/TK/bw/T355861/02/02/L025

**T** 2828 5757

■ Terence.Kong@mottmac.com.hk

Your ref

Ramboll Environ Hong Kong Limited Room 2403, 24/F, Jubilee Centre 18 Fenwick Street Wanchai, Hong Kong

> 14 August 2015 By Email

Attn: Mr. Raymond Dai – Independent Environmental Checker

Dear Sir,

Contract No. HY/2013/04 Hong Kong-Zhuhai-Macao Bridge (HZMB)
Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion)
Monthly EM&A Report for July 2015

In accordance with Condition 5.4 of the Environmental Permit (EP-353/2009/I) covering the captioned contract, we are pleased to submit the certified Monthly EM&A Report for July 2015 for your verification.

Yours faithfully

For MOTT MACDONALD HONG KONG LIMITED

Terence Kong

Environmental Team Leader

Encl.

CC.

AECOM - Mr. Alfred Cheng (By Email)

China State Construction Engineering (Hong Kong) Ltd. - Mr. Gary Ng (By Email)



Monthly EM&A Report for July 2015

August 2015

China State Construction Engineering (Hong Kong) Limited



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### Executive Summan

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/04 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion)" (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China State Construction Engineering (Hong Kong) Limited (hereafter referred to as "the Contractor") and Mott MacDonald Hong Kong Limited (MMHK) was appointed as the Environmental Team (ET) by the Contractor.

The Contract 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/I, was issued on 17 July 2015. These documents are available through the EIA Ordinance Register. Commencement of the Contract took place on 13 March 2015 and the construction works commenced on 13 July 2015.

Mott MacDonald Hong Kong Limited 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 1<sup>st</sup> Monthly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 13 to 31 July 2015 (the "reporting period").

Environmental Monitoring and Audit Progress

The monthly 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 AMS7A 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 during the reporting period are listed below:

Environmental Site Inspection: 16, 23 and 30 July 2015

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 shall be referred to 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 AMS7A 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.

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#### Complaint Log

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There was one complaint received in relation to the environmental impact during the reporting period.

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001	ENPO-C0086	13 July 2015	Noise

After investigation, it was concluded that the complaint was not related to Contract No. HY/2013/04.

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.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

- Pre-drilling works at Bridge D9b, Bridge D12b, Bridge D14b and Bridge D14c at HKBCF Island; and
- Preliminary Driven H Piles and Load Testing at HKBCF Island.

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#### 1.1 Background

On 13 March 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by China State Construction Engineering (Hong Kong) Limited (also referred to as "the Contractor") to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for Contract No. HY/2013/04 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion)" ("the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR).

The Contract 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/I, was issued on 17 July 2015. These documents are available through the EIA Ordinance Register. Commencement of the Contract took place on 13 March 2015 and the construction works commenced on 13 July 2015. The works areas of the contract are shown in **Appendix A**.

This is the 1<sup>st</sup> Monthly EM&A Report summarising the findings of EM&A activities conducted under the Contract from 13 to 31 July 2015 (the "reporting period") and is submitted to fulfil Condition 5.4 of the EP.

#### 1.2 Project Description

The Proposed works under this Contract comprise the following:

- Construction of vehicular bridge and at-grade roads at the southern portion of Hong Kong Boundary Crossing Facilities;
- Construction of associated street lighting, street furniture, road marking, road signage, box culverts and outfalls, drainage, sewerage, fresh water and flushing water supply, irrigation, landscape, electrical and mechanical (E&M), utilities and services works;
- Provisioning of civil engineering works and power supply for Traffic Control and Surveillance System (TCSS); and
- Other works in accordance with the Contract.

#### 1.3 Project Organisation

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**.

Table 1.1: Contact Information of Key Personnel

	2.00%(80gg	Valen	e Elidelia jas	5-17
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Alfred Cheng	3958 7471	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y H Hui	3465 2888	3465 2899
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Ray Yan	5181 8165	3465 2899

<sup>1 355861/</sup>ENP/ENL/03/07.01/0 August 2015 P:Hong Kong\ENL/PROJECTS\355861 HZMB HKBCF (Southern Portion)\03 Deliverable\07 Monthly EM&A Report(01) Jul 2015\(01) Jul 2015\docx



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2-1567 - 1567 - 1568	Goriffon)	(Natrita	Mala) lane	7.7
Contractor	Site Agent	Eddie Tang	9863 7686	2459 4336
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Gary Ng	9475 6832	2459 4336
Environmental Team	Environmental Team	Terence Kong	2828 5919	2827 1823
(Mott MacDonald Hong Kong Limited)	Leader	-		
24-hour Complaint Hotline	•	-	5236 7111	*

#### 1.4 Construction Programme

The Construction Works Programme of the Project is provided in Appendix C.

#### 1.5 Construction Works undertaken during the Reporting Period

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

- 2 predrilling holes (D11/BH01 & D11/BH02) on HKBCF Island; and
- Contractor's temporary accommodation site formation on HKBCF Island.



Nothing Electrical Colors and

### 2 Air Quality Monitoring

#### 2.1 Monitoring Locations

The air quality 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 AMS7A as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. **Figure 1** shows the locations of air monitoring stations

Table 2.1: Construction Dust Monitoring Locations

	iii) laaton Va	Ecocation Description
AMS	66 <sup>(1)</sup>	Dragonair/CNAC (Group) Building
AMS7A <sup>(1)</sup>		Chu Kong Air-Sea Union Transportation Co. Ltd
Per right	14 ta	
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	recommend accommendation of the street of the street in	PCI vidures than the extra superior deviation of entrance of Company Commence of the entrance of

#### 2.2 Monitoring Requirements

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The air quality 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 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 As	वर्धकाराह्मसङ्ग्रहाः । इ	mile avalencem
AMS6 - Dragnair / SNAC (Group) Building (HKIA)	360	500
AMS7A -Chu Kong Air-Sea Union Transportation Co. Ltd.	370	500

Table 2.3: Action and Limit Levels for 24-hour TSP

Monitoring Station Au	High save provid	
AMS6 - Dragnair / SNAC (Group) Building (HKIA)	173	260
AMS7A Chu Kong Air-Sea Union Transportation Co. Ltd.	183	260

The event and action plan is provided in Appendix D.

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 monthly EM&A Report.



#### 2.3 Monitoring Results

The monitoring results for AMS6 and AMS7A are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.

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 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 AMS7A by the Environmental Team of Contract No. HY/2010/02 during the reporting period.



### 3 Noise Monitoring

#### 3.1 Monitoring Locations

Regions Especially and the second

The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF — Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02. **Figure 2** shows the locations of noise monitoring stations.

Table 3.1: Construction Noise Monitoring Locations

NMS	inflactions (in Section 1995)	Jedaljjon akskajaljon Seaview Crescent
NMS	63B <sup>(1)</sup> (2)	Site Boundary of Site Office Area at Works Area WA2
-54 - 4	44	
100		otrong var kit til ekkolori tiletere kalaktio och i i lag Geratorag oranga och atra na anomolorikarati by another di
13	The Aston and him tillares for eathers, we be considered	e Basilakkaketina promispraty indakol

#### 3.2 Monitoring Requirements

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

The Action and Limit Levels for construction noise are defined in Table 3.2.

Table 3.2: Action and Limit Level for Construction Noise

27.11.11	<u>)(4</u> (1)	Actions	A DINEARLY A
07:00	– 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(A)*
is sty	ias pala a lo lo los llad do codidorras, talia los taleas Coladas Aparcacas da calenda carbo as carbacas Recode do Call (BrA) con actico a las diaces		esta asur

#### 3.3 Monitoring Results

The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2010/02. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.



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### 4 Environmental Site Inspection and Audit

#### 4.1 Site Inspection

Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the project. During the reporting period, site inspections were carried out on 16, 23 and 30 July 2015.

Particular observations during the site inspections and corrective actions undertaken by the Contractor are described below.

#### 16 July 2015

a. Drip tray was not provided for some lubricant container. Subsequently, drip trays were provided. The observation was made on 16 July 2015 and closed on 30 July 2015.

#### 23 July 2015

a. No new observations were made.

#### 30 July 2015

a. Stagnant water pond following recent rainfall was observed at WA3. The Contractor was reminded to minimise the stagnant water and related water quality impacts. Follow-up actions for the outstanding observation will be inspected during the next site inspection.

#### 4.2 Advice on the Solid and Liquid Waste Management Status

The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

There was no generation of C&D material during this reporting period. Also, there was no generation of excavated sediment for treatment during this reporting period. Excavated marine sediment will be treated using cement solidification/stabilization (Cement S/S) techniques and will be reused onsite for either backfilling or landscaping (e.g. berm material).

The monthly summary of waste flow table is detailed in Appendix E.

The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

#### 4.3 Environmental Licenses and Permits

The valid environmental licenses and permits during the reporting period are summarized in Appendix F.

#### 4.4 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contractor carried out corrective actions.



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A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.

#### 4.5 Summary of Exceedance of the Environmental Quality Performance Limit

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 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 AMS7A 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.

#### 4.6 Summary of Complaints, Notification of Summons and Successful Prosecution

There was one complaint 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 H**.

Table 4.1: Summary of Environmental Complaints for the Reporting Month

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001	ENPO-C0086	13 July 2015	Noise

The complaint was in relation to construction noise nuisance in the vicinity of Tung Chung New Development Pier. According to the complainant, construction noise was generated at the HKBCF site near Hong Kong SkyCity Marriott Hotel during night-time period of the past 10 days.

After investigation, it was concluded that the complaint was not relevant to Contract No. HY/2013/04. Nevertheless, the Contractor is reminded that no construction site activities during restricted hours are permitted without a valid construction noise permit issued for the specific works, and that application to EPD for such permit is required in advance.

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

Statistics on notifications of summons and successful prosecutions are summarized in Appendix H.



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### 5 Fuine Kerlssues

#### 5.1 Construction Programme for the Coming Months

As informed by the Contractor, the major construction activities for August 2015 are summarized in Table 5.1.

Table 5.1: Construction Activities for August 2015

<b>3</b> 1/2577, 1370	Pascantin a Mativilas
HKBCF	<ul> <li>Pre-drilling works at Bridge D9b, Bridge D12b, Bridge D14b and Bridge D14c at HKBCF Island; and</li> </ul>
	<ul> <li>Preliminary Driven H Piles and Load Testing at HKBCF Island.</li> </ul>

#### 5.2 Environmental Site Inspection Schedule for the Coming Month

The tentative schedule for weekly site inspections for August 2015 is provided in Appendix I.



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### 6 Condiusions

#### 6.1 Conclusions

Commencement of the Contract took place on 13 March 2015 and the construction works of the Contract commenced on 13 July 2015.

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 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 AMS7A 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.

Environmental site inspections were carried out on 16, 23 and 30 July 2015. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.

There was one complaint received in relation to the environmental impact during the reporting period. After investigation, it was found that the complaint was not related to the Contract.

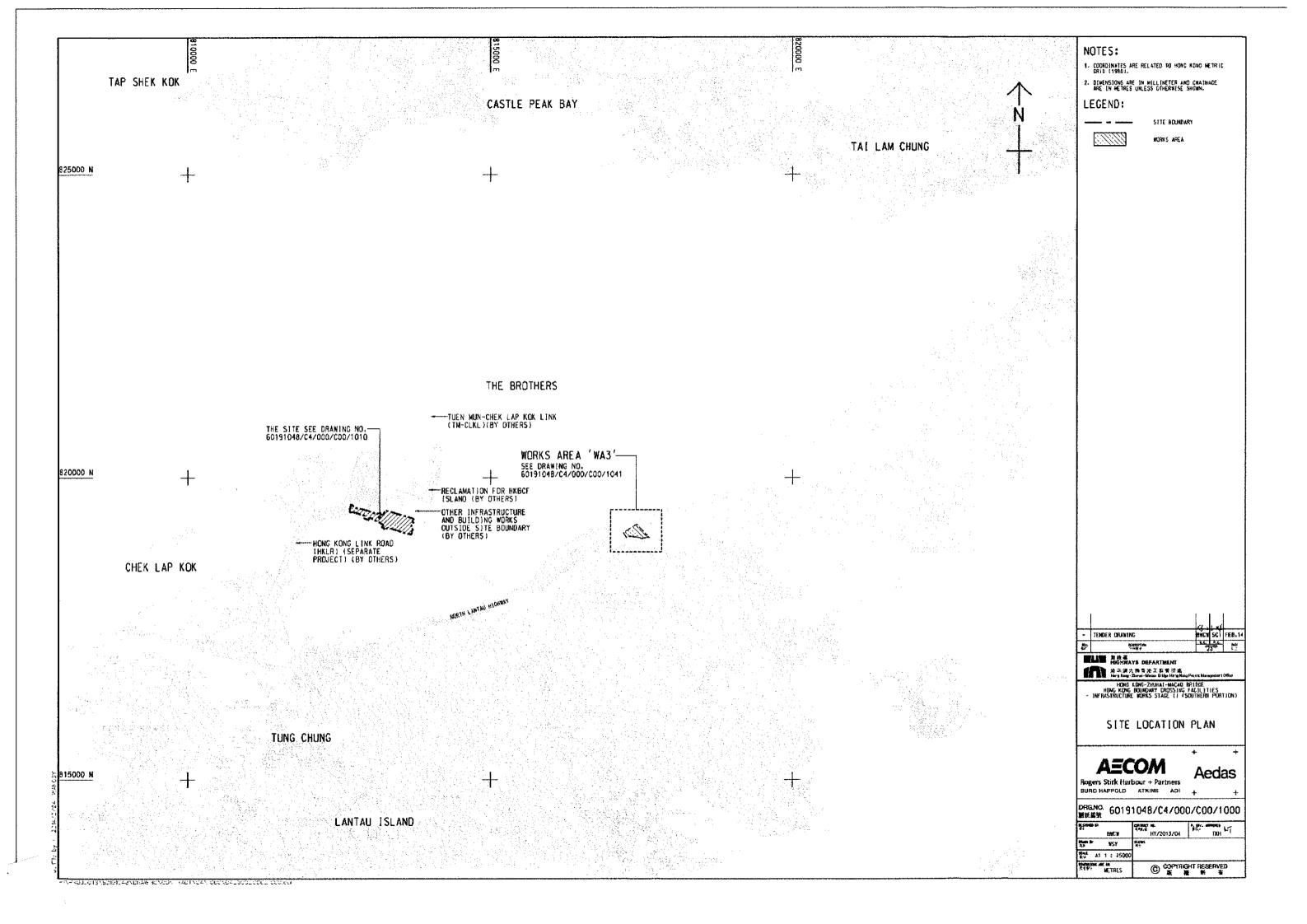
There were no notifications of summons or prosecutions received during the reporting period.

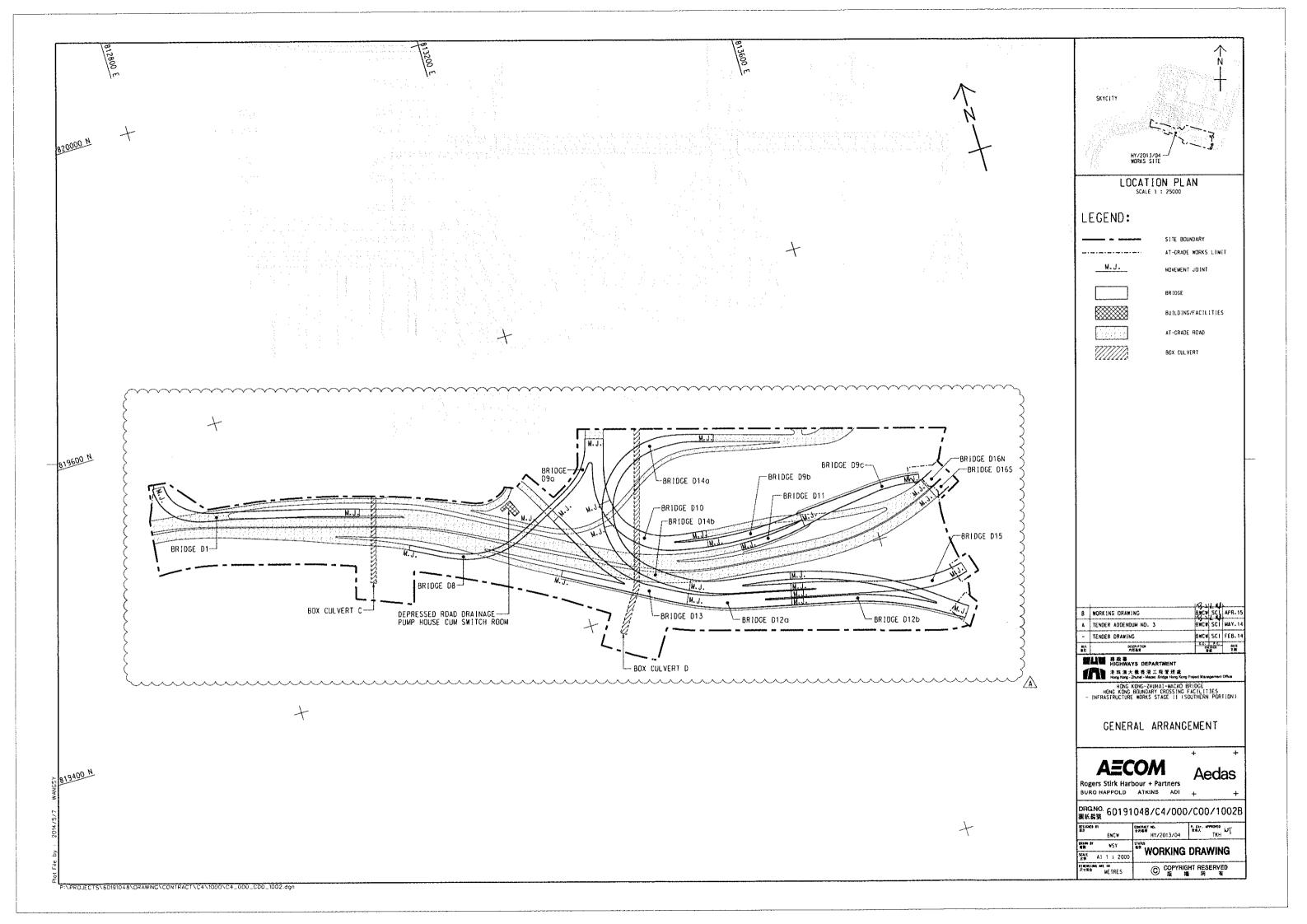


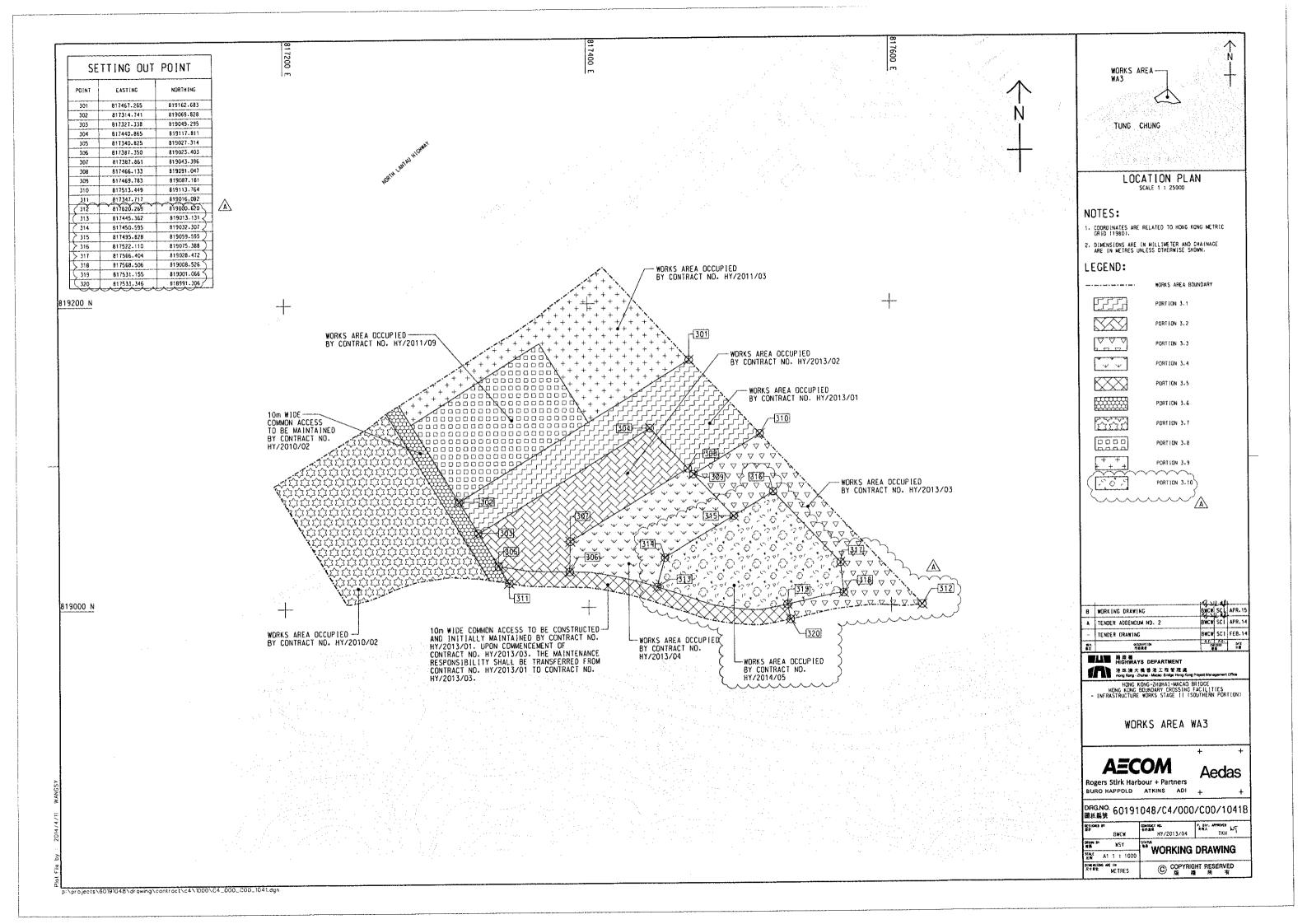




## Appendix A. Location of Works Areas





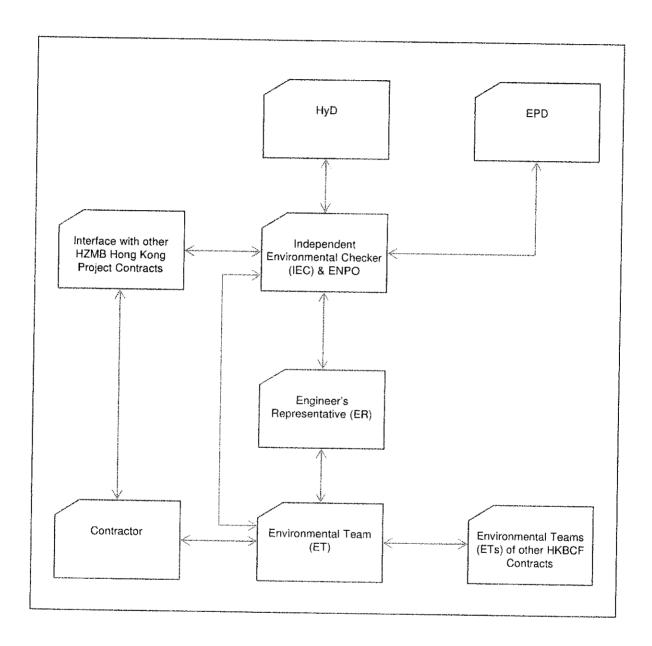




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# Appendix 8 Project Organization for Environmental Works

### **Project Organisation for Environmental Works**



Line of Communication



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## Appendix C. Construction Programme

Data Date: 27-Feb-15 Print Date: 23-Apr-15	HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)  HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)																
Activity ID	Activity Name	Orig I	Dur Early Start	Early Finish Tota		Remarks	2015 2016 2017 2018  O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S										
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CONKRIGO (CON			0 27-Feb-15*		0 CAL 1 • 7 day	27-Fe	b-15 •										
CON.KD.0010	Commencement Date		0 13-Mar-15	1	0 CAL 1 - 7 day	: 14 days from LOA : :13-	√ar-15 ♦										
CON.KD.0020	Completion of the whole of the Works (1520)		0	10-May-19	0 CAL 1 - 7 day							◆ 10-May-19					
Possession D	Site Possession of Portion A1 (61)		0 13-May-15*		0 CAL 1 · 7 day		13 May-15 ◆										
CON.PD.1020	Site Possession of Portion A2 (61)		0 13-May-15*		0 CAL 1 - 7 day		13 May-15 ◆										
CON.PD.1030	Site Possession of Portion A3 (476)		0 01-Jul-16*		0 CAL 1 · 7 day			01-Jul-16 ◆									
CON.PD.1040	Site Possession of Portion A4 (627)		0 29-Nov-16*		0 CAL 1 - 7 day			29-Nov-15 ♦									
CON.PD.1050	Site Possession of Portion A5 (61)		0 13-May-15*		0 CAL 1 - 7 day		13 May:15 ◆										
CON.PD.1060	Site Passession of Portion A6 (61)		0 13-May-15*		0 CAL 1 - 7 day		13 May-15 ◆										
CON.PD.1070	Site Possession of Portion B1 (92)		0 13-Jun-15*		0 CAL 1 - 7 day		13-Jun-15 �										
CON.PD.1080	Site Possession of Portion B2 (123)		0 14-Jul-15*		0 CAL 1 - 7 day		14-3⊌-15 ♦										
CON.PD.1090	Site Passession of Partion B3 (476)		0 01-Jul-16*		0 CAL 1 - 7 day			01-Jul-16 <b>♦</b>									
CON.PD.1100	Site Possession of Portion B4 (627)		0 29-Nov-16*		0 CAL 1 - 7 day			29-Nov-16 ◆									
CON.PD.1130	Site Possession of Portion B5 (123)		0 14-Jul-15*		0 CAL 1 - 7 day		14-Ju⊩15 ◆										
CON.PD.1140	Site Possession of Portion C1 (184)		0 13-Sep-15*		0 CAL 1 - 7 day	. :	13-Sep-15 ❖										
CON.PD.1158	Site Possession of Portion C2 (184)		0 13-Sep-15*		0 CAL 1 - 7 day		13-Sep-15 ◆										
CON.PD.1160	Site Possession of Portion D1 (183)		0 12-Sep-15*		0 CAL 1 - 7 day		12-Sep-15 ◆										
CON.PD.1170	Site Possession of Portion D2 (488)		0 13-Jui-16*		0 CAL 1 - 7 day			13-Jul-16 ♦									
CON.PD.1180	Site Possession of Portion D3 (183)		0 12-Sep-15*		0 CAL 1 - 7 day		12-Sep-15 ♦										
CON.FOT.KD01	KD/Date-1-Stapto-//Sequential Four	ppjedoproktie Works	0	18-Aug-16*	0 CAL 1 · 7 day			◆ 18-Aug-16									
CON,FOT,KD02	KD02 - Achievement of Stage 1B (650)		D	21-Dec-16*	0 CAL 1 - 7 day				21-Dec-16								
CON.FOT.KD03	KD03 - Achievement of Stage 2 (525)		0	18-Aug-16*	0 CAL 1 - 7 day			◆ 18-Aug-16									
CON,FOT.KD04	KD04 - Achievement of Stage 3 (465)		0	19-Jun-16*	0 CAL 1 - 7 day			◆ 19-Jun-16									
CON.FOT.KD05	KD05 - Achievement of Stage 4 (615)		0	16-Nov-16*	0 CAL 1 - 7 day			♦ 16-1									
CON,FOT.KD06	KD06 - Achievement of Stage 5 (615)		0	16-Nav-16*	0 CAL 1 - 7 day			<b>♦ 16-N</b>	ov-16								
CON.FOT.KD07	KD07 - Achievement of Stage 6 (270)		0	07-Dec-15*	0 CAL 1 - 7 day			♦ 07-Dec-15									
CON.FOT,KD08	KD08 - Completion of Section 1 of the Works (	795)	0	15-May-17*	0 CAL 1 - 7 day				◆ 15-May-17								
CON.FOT.KD09	KD09 - Completion of Section II of the Works	(803)	0	23-May-17*	0 CAL 1 - 7 day				◆ 23-May-17 ◆ 23-May-17								
CON.FOT.KD10	KD10 - Completion of Section III of the Works		0	23-May-17*	0 CAL 1 - 7 day			◆ 27-Sep-16	▼ 23-1/03/11/								
CON.FOT.KD11	KD11 - Completion of Section IV of the Works		0	27-Sep-16*	0 CAL 1 - 7 day			▼ 27:5ep-10	◆ 23-May-17								
CON.FOT.KD12	KD12 - Completion of Section V of the Works		0	23-May-17*	0 CAL 1 - 7 day			♦ 19-Jun-16	7.20.00								
CON.FOT.KD13	KD13 - Completion of Section VI of the Works		O O	19-Jun-16*	0 CAL 1 - 7 day			V 23 300 20		◆ 10-May-18							
CON.FOT.KD14	KD14 - Completion of Section VII of the Work		0	10-May-18*	0 CAL 1 - 7 day				◆ 15-May-17								
CON.FOT,KD15	KD15 - Completion of Section VIIIA of the Wo		0	15-May-17*	0 CAL 1 - 7 day					♦ 10-May-18							
CON.FOT.KD16	KD16 - Completion of Section VIIIB of the Wo	orks (1155)	U	10-May-18*	0 CAL1-7 day				◆ 27-Feb-17								
CON.FOT.KD17	KD17 - Achievement of Stage 7 (718)	Janks (20E)	0		<ul><li>CAL 1 - 7 day</li><li>CAL 1 - 7 day</li></ul>				♦ 15-May-17								
CON.FOT.KD17A	KD17A - Completion of Section VIIIC of the W		0	15-May-17*	0 CAL 1 - 7 day												
CON.FOT.KD18	KD18 - Completion of Section VIIID of the Wo			10-1-idy-10-	CALL - / Uay	<u></u>				Initial Works Programme	/MVP) Pay 01						
- Constitution - Cons		•		ent Milestone	R					ate Revision	Check	ked Approved					
1 85   131   50	图建架工程(香港			cal Remaining Wo	rk	HY/2	013/04 - Initial Work	s Programme (Rev. 01)	29-Nov-1 22-Apr-1			VC ET					
CHI	NA STATE CONSTRUCTION ENGINEERIN	IG (HONG KONG) LID.	∄—{⑤ Rem	iaining work		11172	,										

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1			HY/20	)13/04 -	Hong I	Cong Boundary C	ossing Facilities Infrastructure Works Stage II (Southern Portion)	Page : 2 / 24
Activity ID	Activity Name	Orig Du	r Early Start E	arly Finish	Total loat	Calendar Remarks	2015 2016 2017 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	2019 N D J F M A M J Jul A 3
CON.FOT.KD19	KD19 - Completion of Section IXA of the W	orks (1160)	) 1!	5-May-18*	0	CAL 1 - 7 day	◆ 15-May-18	
CON.FOT.KD20	KD20 - Completion of Section IXB of the We	orks (1520)	) 16	0-May-19*	0	CAL 1 - 7 day		◆ 10-May-19
CON.HD.1190	Find OVER DELICATION EMPLOYEE  Handover of Portion A1 (KD8+28 days)		) 1	2-Jun-17*	0	CAL 1 - 7 day	◆ 12-3un-17	
CON.HD.1200	Handover of Portion A2 (KD8+28 days)		) 1	12-Jun-17*	0	CAL 1 - 7 day	◆ 32-Jun-17	
CON.HD.1210	Handover of Portion A3 (KD9+28 days)		2	:0-Jun-17*	0	CAL 1 - 7 day	◆ 20-Jun;17	
CON.HD.1220	Handover of Portion A4 (KD10+28 days)		2	20-Jun-17*	0	CAL 1 - 7 day	◆ 20-Jun:17	
CON.HD.1240	Handover of Portion A5 (KD13+0 days)		0 1	19-Jun-16*	0	CAL 1 - 7 day	◆ 19-jun-16	
CON,HD.1250	Handover of Portion A6 (KD14+28 days)		0	)7-Jun-18*	0	CAL 1 - 7 day	◆ 07-Jun-18	
CON.HD.1260	Handover of Portion B1 (KD8+28 days)		0 1	12-Jun-17*	0	CAL 1 - 7 day	→ 12-Jun-17	
CON.HD.1270	Handover of Portion B2 (KD8+28 days)		0 1	i2-Jun-17*	0	CAL 1 - 7 day	◆ <b>12-Jun-17</b>	
CON.HD.1280	Handover of Portion B3 (KD11+28 days)		0 2	25-Oct-16*	0	CAL 1 - 7 day	◆ 25-Oct-16	
CON.HD.1290	Handover of Portion B4 (KD12+28 days)		0 2	20-Jun-17*	0	CAL 1 - 7 day	◆ 20-Jun;17	
CON.HD.1300	Handover of Portion B5 (KD14+28days)		0 0	07-Jun-18*	0	CAL 1 - 7 day	• 07-Jun-18	
CON.HD.1310	Handover of Portion C1 (KD8+28 days)		0 1	12-Jun-17*	0	CAL 1 - 7 day	• • • • • • • • • • • • • • • • • • •	
CON.HD.1320	Handover of Portion C2 (KD13+0 days)		0 1	19-Jun-16*	0	CAL 1 - 7 day	◆.19-jun-16	
CON.HD.1330	Handover of Portion D1 (KD8+28 days)		0 1	12-Jun-17*	0	CAL 1 - 7 day	◆ 12-Jun-17	
CON.HD.1340	Handover of Portion D2 (KD8+28 days)		0 1	12-Jun-17*	0	CAL 1 - 7 day	◆ 12-3un-17  ◆ 12-3un-17	
CON.HD.1350	Handover of Portion D3 (KD8+28 days)			12-Jun-17*	0	CAL 1 - 7 day		
CONSCIED CON	EITHER (COMP) (ELECTIFIE (CLAP) ELECTIFIED (CLAP) ELECTIFIED (CLAP) (SUB) (SUB			(8-Aug-16*	0	CAL 2 - 6 day	♦ 18-Aug-16	
CON.SC.KD02	KD02 - Achievement of Stage 1B (650)		0 1	14-Dec-16*	0	CAL 2 - 6 day	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CON.SC.KD03	KD03 - Achievement of Stage 2 (525)		0 1	18-Aug-16*	0	CAL 2 - 6 day		
CON.SC.KD04	KD04 - Achievement of Stage 3 (465)		0 1	11-Jun-16*	0	CAL 2 - 6 day	<b>♦ 11-Jun-16</b>	
CON.SC.KD05	KD05 - Achievement of Stage 4 (615)			09-Nov-16*	0	CAL 2 - 6 day	◆ 09-Nov-16	
CON.SC.KD06	KD06 · Achievement of Stage 5 (615)		0 1	I6-Nov-16*	0	CAL 2 - 6 day	◆ 16-Nov-16	
CON.SC.KD07	KD07 - Achievement of Stage 6 (270)			07-Dec-15*	0	CAL 2 - 6 day	◆ Q7-Dec-15	
CON.SC.KD08	KD0B - Completion of Section I of the Wor			15-May-17*	0	CAL 2 - 6 day	◆ 23=May-17	
CON.SC.KD09	KD09 - Completion of Section II of the Wo			23-May-17*	0	CAL 2 - 6 day	◆ 23:May 17	
CON.SC.KD10	KD10 - Completion of Section III of the Wo			23-May-17*	0	CAL 2 - 6 day	◆ 27·Sep-16	
CON.SC.KD11	KD11 - Completion of Section IV of the Wo			27-Sep-16*	0	CAL 2 - 6 day	◆ 16 May-17	
CON.SC.KD12	KD12 - Completion of Section V of the Wor			16-May-17*	0	CAL 2 - 6 day  CAL 2 - 6 day	♦ 18-Jun-16	
CON.SC.KD13	KD13 - Completion of Section VI of the Wo KD14 - Completion of Section VII of the W			18-Jun-16* 10-May-18*	0	CAL 2 - 6 day	<b>◆</b> 10-May-18	
CON.SC.KD14				15-May-17*	0	CAL 2 - 6 day	◆ 15-May-17	
CON SC KD16	KD15 - Completion of Section VIIIA of the  KD16 - Completion of Section VIIIB of the			10-May-18*	0	CAL 2 - 6 day	10-May-18	
CON.SC.KD16 CON.SC.KD17	KD17 - Achievement of Stage 7 (718)	(1233)		20-Feb-17*	0	CAL 2 - 6 day	◆ 20-Feb; 17	
CON.5C.KD17A	KD17A - Completion of Section VIIIC of th	ne Works (795)		15-May-17*	0	CAL 2 - 6 day	◆ 15-May-17	
CON.SC.KD18	KD18 - Completion of Section VIIID of the			10-May-18*	0	CAL 2 - 6 day	• 10-May 18	
CON.SC.KD19	KD19 - Completion of Section IXA of the V			15-May-18*	0	CAL 2 - 6 day	<b>♦</b> 15-169/18	
CON.SC.KD20	KD20 - Completion of Section IXB of the W			10-May-19*	0	CAL 2 - 6 day		◆ 10-May-19
	nementipos da encentra							
\$13.00 (2) CON.PR.1010	Arrange and Secure Professional Indemni	A PROPERTY OF THE PROPERTY OF	0 27-Feb-15	27-Apr-15*	0	CAL 1 - 7 day within 60 days		
<b>Programm</b> s	Engineer							

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Data Date: 27-Feb-15 Page: 3 / 24 Print Date: 23-Apr-15 13:05 Total Float OND JEMAM JUMASOND JEMAM JUMASOND JEMAM JUMASOND JEMAM JUMASOND JEMAM JUMASOND JEMAM JUMASOND JEMAM JUMAS Early Start Early Finish Orig Dur Initial Works Programme CAL 1 - 7 day 7 days from LOA 7 27-Feb-15 05-Mar-15 CON.PR.1020.10 Prepare & Submit Initial Works Programme (IWP) 30 06-Mar-15 04-Apr-15 0 CAL 1 - 7 day CON.PR.1020.20 Engineer's Approval Provisional Programme for Piling Works CAL 1 - 7 day 14 13-Mar-15 26-Mar-15 CON.PR.1030.10 Prepare Detailed Piling Schedule (refer to IWP) 24 27-Mar-15 19-Apr-15 CAL 1 - 7 day CON.PR.1030.20 Engineer's Approval 3 Months Rolling Programme 14 27-Feb-15 12-Mar-15 CAL 1 - 7 day 14 days from LOA CON.PR.1040.10 Prepare 3 Months Rolling Programme CAL 1 - 7 day 24 13-Mar-15 05-Apr-15 CON.PR.1040.20 Engineer's Approval **Detailed Works Programme** 60 05-Apr-15 03-Jun-15 CAL 1 - 7 day CON.PR.1050.10 Prepare Detailed Works Programme (DWP) 30 04-Jun-15 03-Jul-15\* CAL 1 - 7 day CON.PR.1050.20 Engineer's Approval Safety & Health CAL 1 - 7 day 14 days from LOA 14 09-Mar-15 22-Mar-15\* CON.PR.1060.10 Draft Safety Plan CAL 1 - 7 day 35 days from LOA 21 23-Mar-15 12-Apr-15 CON.PR.1060.20 Finalized Safety Plan Environmental Management Plan CAL 1 - 7 day 21 days from LOA 21 27-Feb-15 19-Mar-15 Draft Envirionmental Management Plan CON PR.1080.10 24 20-Mar-15 12-Apr-15 CAL 1 - 7 day 45 days from LOA CON.PR.1080.20 Sub-Contractor Management Plan CAL 1 · 7 day 30 days from LOA Prepare Sub-Contractor Management Plan 30 27-Feb-15 28-Mar-15 CON.PR.1080.50 स्तरम 24 29-Mar-15 21-Apr-15\* CAL 1 - 7 day CON.PR.1080.60 Engineer's Approval Temporary Facilities CAL 2 - 6 day 0 13-Mar-15 Site Possession / Access to Works Area WA3 CAL 2 - 6 day 6 13-Mar-15 19-Mar-15 10 CON PR.0140 Survey / Setting Out CAL 2 - 6 day 16-May-15 Engineer's Principal Site Office 45 20-Mar-15 CON.PR.0150 CAL 2 - 6 day 3 20-Mar-15 23-Mar-15 CON.PR.0150.10 Site Formation CAL 2 - 6 day 5 24-Mar-15 28-Mar-15 CON.PR.0150.20 Foundation 08-Apr-15 10 CAL 2 - 6 day CON.PR.0150.30 Base Slab in a 10 CAL 2 - 6 day 10 09-Apr-15 20-Apr-15 CON.PR.0150.40 Structural Steel Erection 10 CAL 2 - 6 day 7 21-Apr-15 CON.PR.0150.50 Roof and Wall Cladding CAL 2 - 6 day 06-May-15 Internal Partition CON.PR.0150.60 CAL 2 - 6 day 8 07-May-15 15-May-15 CON.PR.0150.70 Building Services 15-May-15 10 CAL 2 - 6 day CON.PR.0150.80 Fit-Out and Office Furnitures 10 CAL 2 - 6 day 18-May-15 2 16-May-15 CON.PR.0150.90 ♦ 18-May-15 18-May-15\* 10 CAL 2 - 6 day CON.PR.0150.95 Handover to Engineer 1,111 CAL 2 - 6 day 45 08-Apr-15 01-Jun-15 11 Contractor's Site Office CON.PR.0160 CAL 2 - 6 day 24 18-May-15 15-Jun-15\* CON.PR.0170 External Works - Paving, Drainage and Fencing Programent CAL 2 - 6 day PROC.MA.1610 Detailed Design / Shop Drawings and Materials Submission CAL 2 - 6 day 18-Jul-15 31 24 19-Jun-15 PROC.MA.1615 Engineer's Review / Approval CAL 2 - 6 day 90 20-Jul-15 PROC.MA.1650 Production / Manufacturing / Facbrication 05-Nov-15 . CAL 2 - 6 day 31 Materials Delivery (first delivery) 0 05-Nov-15 PROC.MA.1670 (-----48 08-Apr-15 04-Jun-15 11 CAL 2 - 6 day PROC.MA.1760 Moulds Detailed Design Preparation / Submission

rata Date: 27-Feb-15 rint Date: 23-Apr-15 1	13:05		HY/2	2013/04 -	Hong	Kong Boundary Cros	ssing Fac	cilities I	nfrastru	cture W	orks S	tage II (	South	ern Por	tion)					Page	: 4 / 24
rant butto. Ed ripi 10			No.	Corly Finisher	Total	Calendar Remarks			2015			2016	Т		2017			2018	11		2019
ctivity ID	Activity Name		Orig Dur Early Start	Early Finish	Total Float		ONDJ	F M A M	J Jul A S C	N D J F	M A M	J Jul A S C	NDJ	F M A M	J Jul A S	OND	J F M A	M J Jul	ASON	D J F M	A M J Jul A
PROC.MA,1765	Engineer's Review / Approval		24 05-Jun-15	04-Jul-15	11	CAL 2 - 6 day															
PROC.MA.1770	Mould Fabrication		48 06·Jul-15	29-Aug-15	11	CAL 2 - 6 day															
PROC.MA.1780	Cast Prototype / Inspection and App	proval	24 31-Aug-15	26-Sep-15	11	CAL 2 - 6 day					N									1	
PROC.MA.2570	Production of Precast Segments (11	i01 nos @ 4 segments/ day)	276 29-Sep-15	02-Sep-16	11	CAL 2 - 6 day 1101 nos @ 4 segments / da	y		10.00-15												
PROC.MA.2590	Materials Delivery (First Delivery)		0 10-Nov-15		11	CAL 2 - 6 day			10-Nov-15		à	3 Con 16 A									
PROC.MA.2650	Materials Delivery (Last Delivery)		0 03-Sep-16		25	CAL 2 - 6 day					: : 0.	3-Sep-16 ♦									
₹81.7.817.07.63/5 PROC.SC.1285		Rump House and Sylich & ment Submisson & Statutory Approval	00m (Oastorosup) 200 08-Apr-15	Nyomidanisia 04-Dec-15	D) 83	CAL 2 - 6 day															
PROC.5C.1287	(FSD/EMSD) Engineer's Review / Approval	, , ,	24 05-Dec-15	05-Jan-16	83	CAL 2 - 6 day				4							1				
PROC.SC.1287	Procurement and Manufacturing of	Materials	180 06-3an-16	15-Aug-16	83	CAL 2 - 6 day				C 33-50		: : : : : :									
PROC.SC.1290  PROC.SC.1300	Materials Delivery (first delivery)		0 16-Aug-16		83	CAL 2 - 6 day					16-	Aug-16 ♦									
		jisyas Sringura &Onar																			
PROC.MA.1990	Detailed Design / Material Submission	on	90 08-Apr-15	25-Jul-15	23	CAL 2 - 6 day		(TOTAL / TOTAL	2000-000 B							ļļ		444			ł .  .
PROC.MA.1995	Engineer's Review / Approval		24 27-Jul-15	22-Aug-15	23	CAL 2 - 6 day			(23)												
PROC.MA.2010	Manufacture of Steel Structures		180 24-Aug-15	02-Apr-16	23	CAL 2 - 6 day			<u> </u>		ا الست										
PROC.MA.2020	Material Delivery (first delivery)		0 0S-Apr-16		23	CAL 2 - 6 day				D5-Apr	-16 🗣										
PROC.MA.2840	iches Moneys	ign / Material Submission and Approval	72 08-Apr-15	04-Jul-15	139	CAL 2 - 5 day															
PROC.MA.2845	(within 12 weeks) Engineer's Review / Approval		24 06-Jul-15	01-Aug-15	139	CAL 2 - 6 day			Ter.												
PROC.MA.2850	Manufacture of Road and Bridge Lig	nhtina	220 03-Aug-15	29-Apr-16	139	CAL 2 - 6 day			<del></del>	<u>: : [                                 </u>	<del></del>										
PROC.MA.2860	Material Delivery (first delivery)	33	0 30-Apr-16		139	CAL 2 - 6 day				30-	Apr-16 �										
recording S	होंच <u>ा</u>			17-Oct-15	98	CAL 2 · 6 day															
PROC.SC.1180	Detailed Design / Material Submissi	ion	160 08-Apr-15	16-Nov-15	98	CAL 2 - 6 day		1													
PROC.SC.1185	Engineer's Réview / Approval		24 19-Oct-15	15-Nov-15	98	CAL 2 - 6 day															
PROC.SC.1190	Procurement and Shipment of Irrig	pation Materials/Equipment	72 17-Nov-15	15-160-16	76	CALZIOOOY															
ত্রকর চার্করিজ PROC.SC.2760	Propose Nursery for Landscape Ma	aterials	48 08-Apr-15	04-Jun-15	166	CAL 2 - 6 day		( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (													
PROC.SC.2780	Joint Inspection and Engineer's ap-	proval	24 05-Jun-15	04-Jul-15	166	CAL 2 - 6 day															
PROC.5C.2790	Landscape Materials Growing		224 06-Jul-15	06-Apr-16	166	CAL 2 - 6 day															
PROC.SC.2810	Materials Delivery (first delivery)		0 07-Apr-16		166	CAL 2 - 6 day				07-Ap	r-16 ♦										
Initial Work	n / Installation c//Site Establishment & and Site Establishment	Maintenance Works																			
CONS.A1.0100	Site Possession / Access to Portion	n A1, A2, A5 & A6	0 13-May-15	and the second s	0	CAL 2 - 6 day		13 May 15 ◆													
CONS.A1.0110	Mobilisation, Site Clearing and Site	: Set-up	15 13-May-15	30-May-15	0	CAL 2 - 6 day		E	3												
CONS.A1.0120	Install Temporary Facilities / Hygie	ene Facilities	36 01-Jun-15	14-Jul-15*	0	CAL 2 - 6 day															
Gates and Ha	nul Road Construction Site Possession / Access to Portion	n A 1	0 13-May-15		18	CAL 2 - 6 day		13 /4ay-15 ◆													
CONS.A1.1010	Survey/ Setting Out		6 i3-May-15	19-May-15	18	CAL 2 - 6 day		0													
CONS.A1.1020	Construct Gate 1 at Haul Road		14 20-May-15		18	CAL 2 · 6 day															
CONS.R1.1030	Site Possession / Access to Portion	n B1	0 13-Jun-15		12	CAL 2 - 6 day		13-Jun-1	5 🔷												
	Mobilisation, Site Survey and Setti		6 13-Jun-15	19-Jun-15	12	CAL 2 - 6 day			0												
CONS.B1.1020	Construct Gate 3 and Temporary		22 16-Jun-15	13-Jul-15	12	CAL 2 - 6 day															
CONS.B1.1030			0 14-Jul-15		6	CAL 2 - 6 day		14-Jı	ul-15 <b>♦</b>												
CONS.B2.1010	Site Possession / Access to Portio	III DE CLUJ	6 14-Jul-15	20-Jul-15	6	CAL 2 - 6 day			0												
CONS.B2,1020	Site Survey / Setting out		6 14-JUF-15	24-101-12	u	urse a - o self					: :	أحلك أحال		<u></u>		<u> </u>					

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HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Data Date: 27-Feb-15 Page: 7 / 24 Print Date: 23-Apr-15 13:05 C N D J F M A M J JJ A S O N D J F M A M J JJ A S O N D J F M A M J JJ A S O N D J F M A M J JJ A S O N D J F M A M J JJ A S Early Start Early Finish Total Float 07-Mar-16 04-Jun-16 CAL 2 - 6 day 76m or 5 Bays CONS.C1.1100 Construct Box Culvert & Drainage Connection (5 bays) CAL 2 - 6 day 72 D8-Apr-16 05-Jul-16 CONS.C1.1110 Box Culvert C - Bay 1-3 and Outfall CAL 2 - 6 day 14 11-Feb-16 26-Feb-16 CONS.C1.1120 Divert / Shift Haul Road to North CAL 2 - 6 day 18-Mar-16 18 27-Feb-16 Remove Rock Armour CONS.C1.1150 CAL 2 - 6 day CONS.C1.1160 Construct Piling Plaform CAL 2 - 6 day 36 nos x 5 days / 4 rigs 45 09-Apr-16 02-3up-16 CONS.C1.1170.10 Predrillina (36 nos) CAL 2 - 6 day 17-Jun-16 45 23-Apr-16 CONS.C1.1170.20 GI Report and Verification / Agreement to Founding Level CAL 2 - 6 day 36 nos x 2.5 days / 3 rigs 30 27-May-16 02-Jul-16 CONS.C1.1180 Piling Driving Works - Driven H-Pile (36 nos) 06-Jul-16 ◆ CAL 2 - 6 day 0 06-Jul-16 Commence Box Culvert C Outfall CONS.C1.8480 16-Jul-16 CAL 2 - 6 day Divert /Shift Haul Road to North (on top of completed box culvert) CONS.C1.8485 CAL 2 - 6 day 12 18-Jul-16 30-1ul-16 CONS.C1.8490 Remove Pilino Platform CAL 2 - 6 day 20-Aug-16 18 01-Aug-16 CONS.C1.8500 Seawall Block Installation near Seawall CAL 2 - 6 day 03-Sep-16 CONS.C1.8510 General Fill CAL 2 - 6 day 14 05-Sep-16 22-Sep-16 CONS.C1.8530 Sheet Pilina 24 23-Sep-16 CAL 2 - 6 day CONS.C1.8540 Dewatering Wells + Pump Test CAL 2 - 6 day 36 24-Oct-16 03-Dec-16 CONS.C1.8550 FLS Works (2 layers of Strut) CAL 2 - 6 day 9 Pile caps x 8 days / 2 WF 13-Jan-17 32 05-Dec-16 CONS.C1.8560 Pile Trimming and Construction of Pile Caps (9 Pilecaps) CAL 2 - 6 day 3 bays 14-Jan-17 28-Mar-17 Construct Box Culvert + Outfall & Drainage Connection (38m or 3 bays) CONS.C1.8570 CAL 2 - 6 day Backfill & Remove Sea Wall Blocks and Reinstate Rock Armour 35 29-Mar-17 15-May-17 CONS.C1.8580 ♦ 15-May-17 15-May-17 CAL 2 - 6 day CONS.C1.8590 Complete Box Culvert C Bridge Works Bridge D1 in Portion C1, D1 and D3 (Interface with Contract HY/2013/03) 14-Sep-15 ◆ CAL 2 - 6 day 0 14-Sep-15 Access to Portion C1, D1 & D3 CONS.C1.1130 CAL 2 - 6 day 6 14-Sep-15 19-Sep-15 CONS.C1.1140 Survey / Setting Out 1117 CAL 2 - 6 day 17 nos x 5 days / 3 rigs 03-Nov-15 CONS.C1.2200.10 Predrilling (17 nos) 12-Nov-15 CONS.C1.2200.20 GI Report and Verification / Agreement to Founding Level 8 04-Nov-15 CAL  $2 \cdot 6$  day  $2 \times 18$  days and  $15 \text{ nos} \times 14$ 62 02-Dec-15 18-Feb-16 D1 Bored Piling (17 nos. 1800-2000mm dia x 52m) ( 2 nos + 0.8m Rock CONS.C1.2210 CAL 2 - 6 day 62 0S-Jan-16 19-Mar-16 Pile Testing CONS.C1.2215 CAL 2 · 6 day 2 nos x 12 days + 4 nos x 8 days + 1 x 10 days + trimming 58 02-Feb-16 16-Apr-16 CONS.C1.2220 Pile Trimming + Pile Caps (6 nos) CAL 2 - 6 day 1 nos x 12 days 21-Mar-16 CONS.C1.2225.10 Construct Pier 508 (Column + Pier head & Bearings) (KD4) CAL 2 - 6 day 24 22-Mar-16 22-Apr-16 Pier P508 Curing CONS.C1.2225.20 0 CAL 2 · 6 day CONS.C1.2225.30 Bearing Installation, Final Inspection and Handover CAL 2 - 6 day 11-Jun-16 Achievement of KD4 (465) CONS.C1.2226 CAL 2 - 6 day 1 no 30 09-Mar-16 16-Apr-16 CONS.C1.2230 Construct Abutment A106 CAL 2 - 6 day 5 nos x 12 days 06-May-16 Pier Columns + Pier Head & Bearings P101-P105 CONS.C1.2240 CAL 2 - 6 day 96 segments, 6 spans x 8 days Bridge D1 - Erect Precast Segments + Stitching + Stressing (6 spans) 48 23-Apr-16 21-Jun-16 CONS.C1.2250 CAL 2 - 6 day 288m / 3 moulds @ 5 days cycle D1 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting 17-Aug-16 CONS.C1.2260 -----CAL 2 - 6 day 288m / 4 moulds @ 5 days cycle / 10m bay 48 11-Oct-16 05-Dec-16 D1 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, CONS.C1.2265 22 CAL 2 - 6 day 12 13-Apr-17 CONS.C1.2270 D1 Final Asphalt Paving + Road Markings ◆ 29-Apr-17 CAL 2 - 6 day 11 29-Apr-17 Completion of Bridge D1 CONS.C1.2280 **Bridge D8** 14-Sep-15 💠 0 14-Sep-15 CAL 2 - 6 day CON5.C1.2285 Site Possession / Access to Portion C1 CAL 2 - 6 day 12 14-Sen-15 26-Sep-15 Survey / Setting Out CONS.C1.2288 25 29-Sep-15 29-Oct-15 CAL 2 - 6 day 10 nos x 5 days / 2 rigs CONS.C1.2290.10 Predrilling (10 nos)

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Bridge D9b

CONS.A1.1105

CONS.A1.1108

Access to Portion A1

Survey / Setting Out

CONS.A1.1110.10 Predrilling (8 nos incl. 4 nos for P910)

0 13-May-15

6 13-May-15

20 26-Jun-15 20-Jul-15

CAL 2 - 6 day

CAL 2 - 6 day

CAL 2 - 6 day 8 nos x 5 days / 2 rig

63

19-May-15

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Page: 9 / 24 Data Date: 27-Feb-15 Print Date: 23-Apr-15 13:05 OND JEMAM JJJJJASOND JEMAM JJJJASOND JEMAM LIMAM JJJJASOND JEMAM LIMASOND LIMA Total Float 29-Jul-15 CAL 2 - 6 day 21-Jul-15 GI Report and Verification / Agreement to Founding Level CONS.A1.1110.20 مفعف CAL 2 - 6 day 8 nos x 14 days / 2 rig 23 56 11-Aug-15 16-Oct-15 D9b Bored Piling (8 nos. 2000mm dia x 49m) including 4 for P910 CONS.A1.1120 7700000 CAL 2 - 6 day 28-Nov-15 56 22-Sep-15 CONS.A1.1125 Pile Testing CAL 2 - 6 day 4 nos x 8d + 6d Trimming 38 30-Nov-15 15-Jan-16 CONS.A1.1130 CAL 2 - 6 day 4 nos x 12 days 48 16-Jan-16 15-Mar-16 Pier Columns + Pier Head & Bearings ( 4 nos. P908 & P909 + P910 x2) CONS.A1.1140 20-Jul-16 CAL 2 - 6 day 44 Segments, 3 spans x 8 days 24 22-Jun-16 Bridge D9b - Erect Precast Segments + Stitching + Stressing (3 spans) CONS.A1.1160 CAL 2 - 6 day 132m / 2 steel moulds @ 5 days 33 12-Jul-16 18-Aug-16 D9b Bridge Ancillary - Parapet/TCSS, Ralling, MJ, Drainage & Bridge Lighting CONS.A1.1170 cycle / 10m bay CAL 2 · 6 day 132m / 2 steel moulds @ 5 days D9b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, 33 03-Nov-16 10-Dec-16 CONS.A1.1175 CAL 2 - 6 day 12 13-Feb-17 25-Feb-17 D9b Final Asphalt Paving + Road Markings CONS.A1.1180 6 25-Feb-17 61 CAL 2 - 6 day 25-Feb-17 CON5.A1.1190 Bridge D9b complete Bridge D9c 13-May-15 : ◆ 0 13-May-15 26 CAL 2 - 6 day Site Possession / Access to Portion A1 & A2 CONS.A1.1192 CAL 2 · 6 day 19-May-15 6 13-May-15 Survey / Setting Out CONS.A1.1194 CAL 2 - 6 day 8 nos x 5 days / 2 rigs CONS.A1.1200.10 Predrilling (8 nos) CAL 2 - 6 day 8 13-3un-15 23-Jun-15 26 CONS.A1.1200.20 GI Report and Verification / Agreement to Founding Level 16-Sep-15 CAL 2 - 6 day 8 nos x 14 days / 2 rigs 56 14-Jul-15 D9c Bored Piling (8 nos. 2000mm dia x 62m) CONS.A1.1210 CAL 2 - 6 day 20-Aug-15 27-Oct-15 10 CONS.A1.1215 \_\_\_\_\_ CAL 2 - 6 day 3 nos x 8 days + 6 days for 24-Nov-15 36 13-Oct-15 Pile Trimming + Pile Caps (3 nos) CONS.A1.1220 22-Dec-15 CAL 2 - 6 day 3 pos x 12 days Pier Columns + Pier Head & Bearings CONS.A1.1230 CAL 2 - 6 day 1 span (cast in-situ) 36 23-Dec-15 05-Feb-16 Bridge D9c - Construct Deck (Cast in Situ) (1 span, P910 to P911) CONS.A1.1240 CAL 2 - 6 day 28 segments, 2 spans x 8 days Bridge D9c - Erect Precast Segments Pier P911 to Pier P913 + Stitching + CONS.A1.1250 CAL 2 - 6 day 126m / 2 Steel moulds @ 7 day D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting 32 12-May-16 20-1un-16 CONS.A1.1260 cycle/ 10m bay \_\_\_\_\_ CAL 2 - 6 day 126m / 2 Steel moulds @ 7 day cycle/ 10m bay 02-Nov-16 32 24-Sep-16 D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting CONS.A1.1270 Bridge D9c in Portion A3 (Interface with Contract HY/2012/07) 02-Jul-16 • CAL 2 - 6 day 11 0 02-Jul-16 Site Possession / Access to Portion A3 CONS.A3.1010  $\Box$ 15-Jul-16 11 CAL 2 - 6 day Mob/ Survey / Setting Out CON5.A3.1020 CAL 2 - 6 day 14 segments, 1 span x 8 days 12 29-Jul-16 11-Aug-16 Bridge D9c (A3) - Erect Precast Segments Pier P913 to Contract Interface CONS.A3.1030 Stitching + Stressing (1 span) CAL 2 - 6 day 41m 1 Steel Moulos @ 5 days 35 12-Aug-16 D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting CONS.A3.1040 CAL 2 - 6 day 4Im 1 Steel Moulds @ 5 days cycle / 10m bay 05-Nov-16 D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, CONS.A3.1045 CAL 2 - 6 day 14-Dec-16 Final Asphalt Paving + Road Markings 15 28-Nov-16 CONS.A3.1050 4-Dec-16 CAL 2 - 6 day 14-Dec-16 Completion of Works in Stage 1B (KD2) CONS.A3.1060 Bridge D10 ay 15 🕏 CAL 2 - 6 day 0 13-May-15 Site Possession / Access to Portion A1 CONS.A1.1284 CAL 2 - 6 day 13-May-15 19-May-15 64 CONS.A1.1286 Survey / Setting Out

CAL 2 - 6 day 14 nos x 5d / 2 rigs

CAL 2 - 6 day 14 nos x 14 days / 3 rigs

CAL 2 - 6 day 8 nos x 8 days + 6 days

CAL 2 - 6 day 8 nos x 12 days / 2 Teams

CAL 2 - 6 day 109 segments, 8 spans x 8 days

CAL 2 - 6 day 195m / 2 Steel Moulds @ 5 days

cycle / 10m bay
CAL 2 - 6 day 195m / 2 Steel Moulds @ 5 days

cycle / 10m bay + median

CAL 2 - 6 day

06-Aug-15

02-Dec-15

19-Feb-16

01-Apr-16

20-Jun-16

02-Aug-16

03-Feb-17

24

25 09-Jul-15

66 14-Sep-15

66 22-Oct-15

36 30-Jan-16

64 02-Apr-16

50 01-Dec-16

14 27-Feb-17

24-Nov-15

Predrilling (16 nos)

Pile Trimming + Pile Caps

Pier Columns + Pier Head & Bearings

D10 Final Asphalt Paving + Road Markings

Abutment A1004

GI Report and Verification / Agreement to Founding Level

D10 Bored Piling (14 nos 1800-2200mm dia x 57m) (42m for Abutment)

Bridge D10 - Erect Precast Segments + Stitching + Stressing (8 spans)

D10 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting

D10 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting,

CONS.A1.1290.10

CONS.A1.1290.20

CONS.A1.1300

CONS.A1.1305

CONS.A1.1310

CONS.A1.1315

CONS.A1.1320

CON5.A1.1340

CONS.A1.1350

CONS.A1.1355

CONS.A1.1360

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saulD I	Activity Name	Orig Dur	Early Start	Early Finish	Total	Calendar	Remarks		12155	2015	A A	TEL	2016	الالحاقاة	D (leli	20 A M i	17	OND	J F M A	2018 M J Jul	ASON	D J F N	A M J Jul A
		0		14-Mar-17	Float 47	CAL 2 - 6 day		ONDJ	F M A M	J Jul A	SOND	J F M A	IN 1 Jul 1	V S O N	<u> </u>	14-Mar-17	VIII A S	- 11 0	-1,-1,-1,-	1 - 1 - 1 - 1			
ann an Leannaigh Caonaigh agus an thaig an airth a bhaill aig an airth a bhaill a bhaill a bhaill a bhaill a b	Bridge D10 complete																						
Bridge D11	Secretary Acres to Porton A1 (61th	0	13-May-15		118	CAL 2 - 6 day			13-May-15 ◆														
	Site Possession / Access to Portion A1 (61d)		19-Sep-15	25-Sep-15	10	CAL 2 - 6 day					0												
	Survey / Setting Out		26-Sep-15	22-Oct-15	10	CAL 2 - 6 day	7 nos x 5 days / 2 rigs				<b>(23)</b>												
CONS.A1.1380.10	GI Report and Verification / Agreement to Founding Level		23-Oct-15	31-0ct-15	10	CAL 2 - 6 day																	
ž.	D11 Bored Piling (3 nos. 2000mm dia x 65) (52m for abutment)	42	02-Nov-15	19-Dec-15	10	CAL 2 - 6 day	3 nos x 14 days / 1 rig	] : [															
	Pile Testing	42	04-Dec-15	25-Jan-16	72	CAL 2 - 6 day					Œ	+											
F	Pile Trimming + Pile Caps ( 4 nos)	38	09-Jan-16	25-Feb-16	72		4 nos x 8 days + 6 days for Trimming																
CONS.A1.1405	Abutment A1101	36	02-Feb-16	17-Mar-16	90	CAL 2 - 6 day	=																
CONS.A1.1410	Pier Columns + Pier Head & Bearings (3 nos, P1102 & P910 x 2)	36	26-Feb-16	12-Apr-16	72	CAL 2 · 6 day	3 nos x 12 days																
	Bridge D11 - Erect Precast Segments + Stitching + Stressing ( 2 spans)	16	11-Jul-16	28-Jui-16	0	CAL 2 - 6 day	31 Segements, 2 spans x 8 day /span						2										
li .	D11 Bridge Ancidary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting,	25	21-Jul-16	18-Aug-16	0	CAL 2 - 6 day	93m / 2 steel moulds @ 5 days cycle / 10m bay						L L										
CONS.A1.1445	& Sign Gantry D11 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,	25	19-Aug-16	19-Sep-16	23	CAL 2 - 6 day	93m / 2 steel moulds @ 5 days cycle / 10m bay	/															
CONS.A1.1450	Signages D11 Final Asphalt Paving + Road Markings	12	11-Nov-16	24-Nov-16	0	CAL 2 - 6 day								2									
CONS.A1.1460	Bridge D11 complete	0		24-Nov-16	135	CAL 2 - 6 day	•							•	24 Nov-16								
Bridge D12a																							
CONS.B1.1835	Site Possession / Access to Portion B1	0	13-Jun-15		0	CAL 2 - 6 day	elekariski politik de listik konsistensisten fan de met e steet stee steet in te I		13-Jun-1	15 ♦													
CON5.B1.1837	Site Survey and Setting Out	6	13-Jun-15	19-Jun-15	0	CAL 2 - 6 day	•			1													
CONS.B1.1B40.10	Predrilling (17 nos)	30	18-Jun-15	24-Jul-15	0	CAL 2 - 6 day	y 17 nos x 5 days / 3 rigs																
CONS.B1.1840.20	GI Report and Verification / Agreement to Founding Level	30	04-Jul-15	07-Aug-15	0	CAL 2 - 6 day	¥																
CON5.81.1850	D12a Bored Piling (17 nos. 2000mm dia x 60m + 1.0m Rock Socket)	77	18-Jul-15	17-Oct-15	0	CAL 2 - 6 day	y 17 nos x 18 days / 4 rigs																
CONS.B1.1855	Pile Testing	77	20-Aug-15	20-Nov-15	. 0	CAL 2 - 6 day	y											İ. İ. İ					
CONS.B1.1860	Pile Trimming + Pile Caps	60	23-Sep-15	04-Dec-15	0		y 3 nos x 14 days + 1 x 8 days + 10 days trimming	; ;														:	
CONS.B1.1880	Pier Columns + Pier Head & Bearings	48	3 24-Oct-15	18-Dec-15	0	CAL 2 - 6 day	y 7 nos x 12 days / 2 Teams																
CONS.B1.1890	Bridge D12a - Erect Precast Segments + Stitching + Stressing (6 spans)	48	30-Nov-15	27-Jan-16	0		y 95 Segments, 6 spans x 8 day: / span																
CONS.B1.1900	D12a Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting, & Sign Gantry	, 45	26-Jan-16	21-Mar-16	0		y 171m / 2 steel moulds @ 5 da cycle / 10m bay																
CONS.B1.1905	D12a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	45	5 15-Aug-16	08-Oct-16	3	CAL 2 - 6 da	y 171m / 2 steel moulds @ 5 da cycle / 10m bay	s													4-4-E-E		
CONS.B1.1910	D12a Final Asphalt Paving + Road Markings	12	2 14-Oct-16	27-Oct-16	0	CAL 2 - 6 da	у							<u> </u>	7-Oct-16								
CONS.B1.1920	Bridge D12a complete	0	0	27-Oct-16	159	CAL 2 - 6 da	<b>y</b>								7-00-10								
<b>Bridge D12b</b> CONS.82.2015	Site Possession / Access to Portion B2 & B5	C	0 14-Jul-15	20 61 62 750	31	CAL 2 - 6 da	ıy		14-	ĵul-15 ◆													
CONS.B2.2018	Site Survey / Setting out	6	6 14-Jul-15	20-Jul-15	31	CAL 2 - 6 da					District.			ļļ									
CONS.82.2020.10	Predrilling (18 nos)	30	0 22-Aug-1!	S 25-Sep-1	5 0		y 18 nos x 5 days / 3 rigs																
CONS.B2.2020.20	GI Report and Verification / Agreement to Founding Level	30	0 05-Sep-1	12-Oct-1	5 0	CAL 2 - 6 da																	
CONS.82.2030	D12b Bored Piling (18 nos. 2000mm dia x 64m + 3.3m Rock Socket)	65	5 19-Sep-1	5 07-Dec-1	5 0	CAL 2 - 6 da	ay 18 nos x 18 days / 5 rigs																
CONS.B2.2035	Pile Testing	65	5 26-Oct-15	5 12-Jan-1	6 0	CAL 2 - 6 da	ay .																
CONS.B2.2040	Pile Trimming + Pile Caps	7:	2 23-Nov-1	5 20-Feb-1	6 0	CAL 2 - 6 da	ay 9 nos x 8 days + 6 days trimming										4.1.4.						
CONS.B2.2060	Pier Columns + Pier Head & Bearings	6	0 30-Dec-1	5 12-Mar-1	6 0	CAL 2 - 6 da	ay 9 nos x 12 days / 2 teams																
CONS.B2.2070	Bridge D12b - Erect Precast Segments + Stitching + Stressing (8 spans)	6	i4 28-Jan-1i	6 19-Apr-1	6 0	CAL 2 - 6 da	ay 127 Segments, 8 spans x 8 days/ span																
CONS.BZ.2080	D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting	g, 4	5 22-Mar-1	6 19-May-1	.6 0	CAL 2 - 6 da	ay 182m / 2 steel moulds @ 5 da cycle / 10m bay	ys :															
CONS.B2.2085	Sign Gantry     D12b Bridge Ancillary - Parapet + Railing, M), Drainage, Bridge Lighting,     Consense	7	2 20-May-1	6 13-Aug-1	.6 0	CAL 2 - 6 da	ay 566m / 4 steel moulds @ 5 da cycle / 10m bay	уѕ						222									
CONS.B2.2090	Signages Final Paving, Road Markings and Signages	1	12 28-Sep-1	6 13-Oct-1	6 0	CAL 2 - 6 da												444					
	(cast in-situ) in Portion B3 (Interface with Contract HY/2) Site Possession/Access to Portion B3		0 02-Jul-10	6	0	CAL 2 - 6 da	ay						)2-Jul-16 �										

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N-10-2-10	Activity Name	Orig Dur Early Start	Early Finish	Total	Calendar Remarks			2015			20	016		I E I A I A I	2017	NEON	חוב		2018	SIOINID	JEMA	
Activity (O		6 02-Jul-16	08-Jul-16	Float 0	CAL 2 - 6 day	ONDJ	F M A	M J Jul	ASON	DJFN	A A M J	Jul A S C	J N D .	FMA	M J JUI P	3 0 14	D 3 F	W A W	5   301   A	3101.12	J F M A	
CONS.B3.2120	Survey / Setting Out		15-Aug-16		CAL 2 - 6 day 1 span (cast in-situ)																	
	Bridge Di2b (Portion B3) - Construct Deck (cast-in-situ) Pier P1210/P1214 interface with Other Contract	36 05-Jul-16		0	CAL 2 - 6 day 41m / 1 steel mould @ 5 days							<b>23</b>										
CONS.B3.2140	D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting, & Sign Gantry	21 18-Aug-16	10-Sep-16	0	cycle / 10m bay  CAL 2 - 6 day 41m / 1 steel mould @ 5 days							223										1
CONS.B3.2145	D12b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	21 24-Aug-16			cycle / 10m bay																	
CONS.B3.2150	D12b Final Paving, Road Markings and Signages	7 20-Sep-16	27-Sep-16	0	CAL 2 - 6 day							•	27-Sep-16									
CONS.83.2160	Completion of Section IV (KD11) Works within Portion B3 including Bridge D12b	0	27-Sep-16	0	CAL 2 - 6 day												:					
Bridge D13 in P	ortion B1 and Portion C1																					
CONS.B1.1925	Site Possessian / Access to Portion B1	0 13-Jun-15		27	CAL 2 · 6 day		13-Jur	r15 ♦				ļ. ļļ					-   -   -					
CONS.B1.1926	Site Possession / Access to Portion C1	0 14-Sep-15		0	CAL 2 - 6 day			14-Sep-	15 🗢													
CONS.B1.1928	Site Survey / Setting out Portion B1	6 13-Jun-15	19-Jun-15	27	CAL 2 - 6 day																	
CONS.B1.1929	Site Survey / Setting out Portion C1	6 14-Sep-15	19-Sep-15	0	CAL 2 - 6 day				*													
CONS.B1.1930.10	Predrilling (15 nos) in Portion B1	25 24-Jul-15	21-Aug-15	0	CAL 2 - 6 day 15 nos x 5 days / 3 rigs				20								:					
CON5.B1.1930.20	GI Report and Verification / Agreement to Founding Level - 81	8 22-Aug-15	31-Aug-15	37	CAL 2 · 6 day																	
CONS.B1.1932.10	Predrilling (6 nos) in Portion C1	15 21-Sep-15	09-Oct-15	0	CAL 2 - 6 day 6 nos x 5 days / 2 rigs																	
lit.	GI Report and Verification / Agreement to Founding Level - C1	8 10-Oct-15	19-Oct-15	0	CAL 2 - 6 day				•													
CONS.B1.1940	D13 Bored Piling (15 nos. 1800-2000mm dia x 52m) 4nos + 0.8m Rock	57 26-Sep-15	04-Dec-15	15	CAL 2 - 6 day 4 nos x 18 days and 11 nos x 1 days / 4 rigs	4			(	<b>=</b>												
CONS.B1.1942	Socket - Portion B1 Pile Testing B1	57 02-Nov-15	09-Jan-16	15	CAL 2 - 6 day				Ė													
CONS.B1.1946	D13 Bored Piling (6 nos. 1800-2000mm dia x 47m-52m) - Portion C1	42 20-Oct-15	08-Dec-15	0	CAL 2 - 6 day 6 nos x 14 days / 2 rigs																	
	Pile Testing C1	42 23-Nov-15	13-Jan-16	28	CAL 2 - 6 day																	
CONS.81.1948	Pile Trimming + Pile Caps - Portion B1	56 05-Dec-15	15-Feb-16	15	CAL 2 - 6 day 5 nos x 10 days +6 days					$\Rightarrow$												
CONS.B1.1950		36 14-Jan-16		28	trimming  CAL 2 · 6 day 3 nos x 10 days ÷ 6 days																	
CONS.B1.1952	Pile Trimming + Pile Caps - Portion C1	56 20-Jan-16	_	15	trimming  CAL 2 - 6 day 9 nos x 12 days / 2 teams									:								
CONS.B1.1954	Pier Columns + Pier Head & Bearings	36 25-Feb-16		7	CAL 2 - 6 day 2 nos x 2 work fronts																	
CONS.B1.1960	Construct Abutment A1301 + A1307 - Portion C1	66 20-Apr-16		0	CAL 2 - 6 day 129 Segments, 9 spans x 8 da	ys	1 4.4.															
CONS.B1.1980	Bridge D13 - Erect Precast Segments + Staching + Stressing (9 spans)			0	/span CAL 2 - 6 day 293m / 3 steel moulds @ 5 da								: :									
CONS.B1.1990	D13 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting, & Sign Gantry	50 21-Jun-16		6	cycle / 10m bay  CAL 2 - 6 day 293m / 3 steel moulds @ 5 da								<b>=</b>									
CONS.B1.1995	D13 Bridge Ancıllary - Parapet + Railing, MJ, Orainage, Bridge Lighting, Signages	50 19-Aug-16	_	٥	cycle / 10m bay  CAL 2 - 6 day																	
CONS.B1.2000	D13 Final Asphalt Paving, Road Markings & Signages	12 28-Oct-16		• • •									<b>♦</b> 10-No	v-16								
CONS.B1.2010	Completion of Bridge D13	O	10-Nov-16	147	CAL 2 - 6 day																-	
Bridge D14a CONS.A1.1464	Commence Bridge D14a / Portion A1	0 13-May-15	;	9	CAL 2 - 6 day		13 May-15	5 💠														
CONS.A1.1466	Survey / Setting Out	6 13-May-15	19-May-15	9	CAL 2 - 6 day			0														
CONS.A1.1470.10	Predrilling (12 nos)	30 19-May-15	5 24-Jun-15	9	CAL 2 - 6 day 12 nos x 5 days / 2 rigs																	
CONS.A1.1470.20	GI Report and Verification / Agreement to Founding Level	8 25-Jun-15	04-Jul-15	9	CAL 2 - 6 day																	
CONS.A1.1480	D14a Bored Piling (12 nos. 2000mm dia x 62m) 47m for Abutment	56 14-Jul-15	16-Sep-15	2	CAL 2 - 6 day 12 nos x 14 days / 3 rigs			•														
CONS.A1.1485	Pile Testing	56 15-Aug-15	5 22-Oct-15	24	CAL 2 - 6 day				7755													
CONS.A1.1490	Pile Trimming + Pile Caps	54 17-Sep-19	5 21-Nov-15	24	CAL 2 - 6 day 6 nos x 8 days + 6 days trimming					<b>3</b>   1												
CONS.A1.1510	Pier Columns + Pier Head & Bearings	36 26-Oct-15	5 05-Dec-15	24	CAL 2 - 6 day 6 nos x 12 / 2 WF					=   .												
CONS.A1.1515	Construct Abutment A1401	30 01-Dec-15	5 07-Jan-16	11	CAL 2 - 6 day																	
CONS.A1.1520	Bridge D14a - Erect Precast Segments + Stitching + Stressing (5 spans)	40 21-Jan-16	5 10-Mar-16	0	CAL 2 - 6 day 75 Segments / 5 spans x 8 da / span	ys					8											
CONS.A1.1530	D14a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting &	55 21-Oct-16	5 23-Dec-16	63	CAL 2 - 6 day 428m / 4 steel moulds @ 5 d	ays																
	Signages D14a Final Asphalt Paving + Road Markings	12 15-Mar-1	7 28-Mar-17	0	/ cycle / 10m bay CAL 2 - 6 day									129								
CONS.A1.1540		0	28-Mar-17	35	CAL 2 - 6 day									<b>•</b> 2	8-Mar-17							
CONS.A1.1550 Bridge <b>D14b</b>	Bridge D14a complete in Portion A1 and Portion B1			57	CAL 2 - 6 day		13-0	un-15 �														
CONS.B1.1654	Access to Portion B1	0 13-Jun-1						D														
CONS.B1.1656	Survey / Setting Out	6 13-Jun-1	5 19-Jun-15	57	CAL 2 - 6 day				<u> </u>			<u> </u>	<u> </u>			<u>: : : : : : : : : : : : : : : : : : : </u>	<u>:                                    </u>			<u> </u>		
R4:																						

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Data Date: 27-Feb-15 Page: 12 / 24 Print Date: 23-Apr-15 13:05 O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S Early Start Activity ID CAL 2 - 6 day 6 nos x 5 days / 2 rigs 15 09-Jul-15 25-Jul-15 CONS.81.1660.10 Predrilling (6 nos) 127 CAL 2 - 6 day 8 27-Jul-15 04-Aug-15 GI Report and Verification / Agreement to Founding Level CONS.B1.1660.20 CAL 2 - 6 day 2 nos x 18 days + 4 nos x 14 D14b Bored Piling (6 nos. 2000-2200mm dia x 62m) (2nos +2.3m Rock 46 23-Dec-15 20-Feb-16 10 CONS.B1.1670 10 24-Mar-16 46 28-Jan-16 Pile Testing / Coring Test for Socket Bored Pile CONS B1 1675 CAL 2 - 6 day 3 nos x 8 days + 6 days 30 29-Mar-16 Pile Trimming + Pile Caps CONS.B1.1680 CAL 2 - 6 day 6 nos x 12 72 05-May-16 30-Jul-16 CONS.B1.1690 Pier Columns + Pier Head & Bearings 200 CAL 2 - 6 day 49 Segments @ 3 spans x 8 24 29-Jul-16 25-Aug-16 Bridge D14b - Erect Precast Segments + Stitching + Stressing (3 spans) CONS.B1.1710 CAL 2 - 6 day 284m / 4 steel moulds @ 5 days 11-Oct-16 21 D14b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting 8 CONS.B1.1720 cycle / 10m bay 11-Feb-17 12 26-3an-17 D14b Final Asphalt Paving + Road Markings CONS.B1.1730 • 11-Feb-17 11-Feb-17 73 CAL 2 - 6 day Bridge D14b complete CONS.B1.1740 Bridge D14c l3-Jun-15 • CAL 2 - 6 day Site Possession / Access to Portion B1 0 13-Jun-15 CONS.B1.1744 6 13-Jun-15 19-Jun-15 72 CAL 2 - 6 day CONS.81.1746 Survey / Setting Out CAL 2 - 6 day 11 nos x 5 days / 3 rigs 20 22-Aug-15 14-Sep-15 CONS.B1.1750.10 Predrilling (11 nos) 23-Sep-15 CAL 2 - 6 day 8 15-Sep-15 GI Report and Verification / Agreement to Founding Level CONS.B1.1750.20 CAL 2 - 6 day 11 nos x 18 days / 3 rigs 23 D14c Bored Piling (11 nos. 2000-2200mm dia x 67m + 2.3m Rock Socket) 66 17-Oct-15 06-Jan-16 CONS.B1.1760 CAL 2 - 6 day 20-Feb-16 66 30-Nov-15 CONS.B1.1765 CAL 2 - 6 day 3 nos x 12 days + 6 days 19-Mar-16 23 CONS.B1.1770 Pile Trimming + Pile Caps 23 CAL 2 - 6 day 4 nos x 12 days 48 22-Feb-16 21-Apr-16 Pier Columns + Pier Head & Bearings CONS.B1.1790 04-Jun-16 23 CAL 2 - 6 day 1 span (cast in-situ) 36 22-Apr-16 Bridge D14c - Construct Deck (cast in-situ) Pier P1409 to P1410 CONS.B1.1795 CAL 2 - 6 day 60 Segments, 4 spans x 8 days 32 26-Aug-16 05-Oct-16 Bridge D14c - Erect Precast Segments + Stitching + Stressing (4 spans) CONS.B1.1800 CAL 2 - 6 day 428m / 4 steel moulds @ 5 days D14c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting & CONS.B1.1810 12 12-Jan-17 CAL 2 - 6 day 25-lan-17 D14c Final Asphalt Paving + Road Markings CON5.B1.1820 ◆ 25-Jan-17 CAL 2 - 6 day 25-Jan-17 85 Bridge D14c complete CONS.B1.1830 Bridge D15 14-Jul-15 • CAL 2 - 6 day 68 0 14-Jul-15 Site Possession/Access to Portion B5 CONS.B5.2104 20-3ul-15 CAL 2 - 6 day Survey/ Site Setting Out CONS.B5.2106 CAL 2 - 6 day 11 nos x 5 days / 2 rigs 30 10-Oct-15 14-Nov-15 CONS.B5.2110.10 Predrilling (11 nos) CAL 2 - 6 day 12 16-Nov-15 GI Report and Verification / Agreement to Founding Level CONS.B5.2110.20 CAL 2 - 6 day 11 nos x 18 days / 4 rigs 50 09-Dec-15 11-Feb-16 D15 Bored Piling (11 nos. 2000mm dia x 65m + 3.3m Rock Socket) CONS.BS.2120 CAL 2 - 6 day 29-Mar-16 50 25-Jan-16 Pile Testing CONS.B5.2125 CAL 2 - 6 day 4 nos x 12 days + 6 days for trimming Pile Trimming + Pile Caps CONS.85.2130 CAL 2 - 6 day 4 nos x 12 days 48 04-Jun-16 01-Aug-16 Pier Columns + Pier Head & Bearings CONS.BS.2140 CAL 2 - 6 day 1 span x 36 days (cast in-situ) 36 16-Aug-16 28-Sep-16 CONS.B5.2150 Bridge D15 - Construct Deck (cast in-situ) Pier P1501/P1502-1503 CAL 2 - 6 day 64 Segments, 4 Spans x 8 days 32 06-Oct-16 12-Nov-16 Bridge D15 - Erect Precast Segments + Stictching + Stressing (4 spans) CONS.85.2160 CAL 2 - 6 day 450m / 4 steel moulds @ 5 days 17-Jan-17 D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting 60 05-Nov-16 CONS.B5.2170 CAL 2 - 6 day 12 17-May-17 31-May-17 280 CONS.B5.2180 D15 Final Asphalt Paving, Road Markings and Signages Bridge D15 in Portion B4 (Interface with Contract HY/2012/07)

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6 29-Nov-16

8 06-Dec-16

12 29-Mar-17

24 13-Apr-17

20-Jan-17

05-Dec-16

14-Dec-16

27-Feb-17

12-Apr-17

16-May-17

Site Possession/Access to Portion B4

Bridge D15 - Erect Precast Segments on Falseworks at Portion B4 Interface

D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting,

Completion of Section V (KD12) Works within Portion B4 including Bridge

D15 Final Asphalt Paving, Road Markings and Signages

Survey / Site Setting Out

Inspection and Handover

CONS.B4.2170

CONS.B4.2180

CONS.84.2190

CONS.B4.2200

CONS.B4.2210

CONS.B4.2220

CONS.B4.2230

CAL 2 - 6 day

CAL 2 - 6 day

CAL 2 - 6 day

CAL 2 - 6 day

CAL 2 - 6 day

CAL 2 - 6 day 14 segments, 1 Span x 8 days

CAL 2 - 6 day 84m / 2 steel moulds @ 5 days

29-Nov-16 ◆

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• 16-May-17

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HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Data Date: 27-Feb-15 Page: 15 / 24 Print Date: 23-Apr-15 13:05 Orig Dur Early Start Early Finish OND JEMAM JUJASOND JEMAM JUJASOND JEMAM JUJASOND JEMAM JUJASOND JEMAM JUJASOND JEMAM JUJASOND JEMAM JUJA Activity Name Final Paving and Road Markings CAL 2 - 6 day 20 21-Jan-17 16-Feb-17 CONS.RW.2710 Final Road Paving (Wearing Course)  $\Box$ CAL 2 - 6 day 16 17-Feb-17 07-Mar-17 CONS.RW.2740 Road Markings and Road Signages Road SOL 108 / 106 Adjacent to Road SOL 108 / 106 and Abutment A901 53 12-Apr-16 15-Jun-16 CAL 2 - 6 day CONS.RW.2070 Excavate and Install Common Telecom Ducting and Telecom Ducting by Others + Backfilling CAL 2 - 6 day 10 12-Apr-16 22-Apr-16 CONS.RW.2160 Road Formation to subgrade + Drainage System CAL 2 - 6 day 05-May-16 CONS.RW.2190 Install TCSS/LV/ELV Ducting 10 23-Apr-16 CAL 2 - 6 day CONS.RW.2230 Excavate and Construct footing for Railing and Road lighting CAL 2 - 6 day 6 17-May-16 23-May-16 CONS.RW.2250 Road formation to Subbase CAL 2 - 6 day 6 24-May-16 CONS.RW.2370 Construct Precast Road Kerbings CAL 2 - 6 day 08-Jun-16 CONS.RW.2380 Road formation to Road base and Base course CAL 2 - 6 day 14-Jun-16 CONS.RW.2390 Install Road Lighting, Railing and Signages 4 10-Jun-16 CAL 2 - 6 day CONS.RW.2400 Final Road Paving and Road markings (KD13 - Completion of Section VI) Road Works (West of Box Culvet D) Road Formation and Drainage System Road SOL 101 / 105 Road Formation and Drainage System 19-Sep-15 CAL 2 - 6 day CONS.RW.2270 Survey/ Road Setting Out CAL 2 - 6 day CONS.RW.2280 Road Formation to Sub-grade (Cut & Fill) 75 21-Sep-15 19-Dec-15 CAL 2 - 6 day CONS.RW.2290 Excavate to Invert level and install Drainage System (Drain Pipes & Catchpit/Manholes) + Testing & Interface Connection 150 09-Oct-15 Installation of Underground Utilities CAL 2 - 6 day 66 18-Sep-15 07-Dec-15 CONS.RW.2295 Excavate and Install HV Cable Ducting on Carriageway ♦ 07-Dec-15 CAL 2 - 6 day 07-Dec-15 CONS.RW.2300 Handover area to CLP for HV Cable Laying CAL 2 - 6 day CONS.RW.2310 Excavate and Install Fresh WM / Valves & fittings + Testing, Cleaning & 150 17-Nov-15 23-May-16 Flushing and Interface Connection 30-May-16 CAL 2 - 6 day CONS.RW.2320 Excavate and Install Common Telecom Ducting and Telecom Ducting by CAL 2 - 5 day CONS.RW.2330 Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS 150 01-Dec-15 06-Jun-16 Kerbing and Footings for Railing, Fencing, Signages and Road Lighting CAL 2 - 6 day CONS.RW.2340 Excavate and Construct Footings for Road Lightlings / Railing / Fencing and Signages 120 05-Feb-16 06-Jul-16 CAL 2 - 6 day 13-Jul-16 90 22-Mar-16 CONS.RW.2350 Road Formation to Sub-base 90 01-Apr-16 20-Jul-16 CAL 2 - 6 day CONS.RW.2360 Construct Precast Road Kerbings Road Works to Road Base and Base Course 90 31-May-16 CAL 2 - 6 day CONS.RW.2570 Road Formation to Road Base CAL 2 - 6 day 75 18-Jul-16 17-Oct-16 CONS.RW.2580 Road Formation to Base Course Installation of Railing and Fencing + Road Lighting and Signages CAL 2 - 6 day 90 27-Aug-16 14-Dec-16 CONS.RW.2630 Install Road Railing and Fencing CAL 2 - 6 day 75 19-Oct-16 17-Jan-17 CONS.RW.2860 Install Road Lighting and Signages Final Paving and Road Markings CAL 2 - 6 day 24 18-Feb-17 17-Mar-17 CONS.RW.2660 Final Road Paving (Wearing Course) CAL 2 - 6 day 18 18-Mar-17 08-Apr-17 CONS.RW.2750 Road Markings and Road Signages CAL 2 - 6 day 12 10-Apr-17 26-Apr-17 CONS.RW.2780 Cleaning and Rectification Works Road SOL 102 /106/111 Road Formation and Drainage System CAL 2 - 6 day 6 21-Sep-15 26-Sep-15 CONS.RW.2410 Survey/ Road Setting Out 48 29-Sep-15 25-Nov-15 CAL 2 - 6 day CONS.RW.2420 Road Formation to Sub-grade (Cut & Fill)

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HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Page: 17 / 24 Data Date: 27-Feb-15 Print Date: 23-Apr-15 13:05 ONDJEMAMJJJJASONDJEMAMJJJJASONDJEMAMJJJJASONDJEMAMJJJJASONDJEMAMJJJJJASONDJEMAMJJJJJAS Calendar Remarks CAL 2 - 6 day 45 27-Oct-15 17-Dec-15 CONS.C1.5040 Excavate and install Drainage Pipes and Construct Manholes & Backfill 54 18-Nov-15 22-Jan-16 CAL 2 - 6 day CONS.C1.5050 Excavate and Install Fresh Water Mains & Flush Water Main + Hydrotest, Clean & Flushing and Connection CAL 2 - 6 day 72 04-Dec-15 03-Mar-16 CONS.C1.5060 Construct U-Structure - Base Slab and Walls 05-Apr-16 CAL 2 - 6 day CONS.C1.5070 Construct Plain ad Ribbed Finishes to Walls CAL 2 - 6 day 36 06-Apr-16 19-May-16 CONS.C1.5080 Backfill and Compaction CAL 2 - 6 day 17-Jun-16 CONS.C1.5090 Construct Footing for Road Lighting and Signages 24 20-May-16 02-Jul-16 CAL 2 - 6 day CONS.C1.5100 Install Ducting and Drawpits for Road Lighting Stage 2 - Depressed Road (East Side 2nd Half) Interface with Bridge D14a, D9a & D10 04-Jul-16 � CAL 2 - 6 day 0 04-3ul-15 CONS.C1.8670 Commence Works on Depressed Road (2nd Half on the East Side) CAL 2 - 6 day 6 04-Jul-16 09-Jul-16 CONS.C1.8680 Survey / Setting out CAL 2 - 6 day interface with erection of segments at D14a and D10 30-Aug-16 45 09-Jul-16 CONS.C1.8690 Excavate to formation level CAL 2 - 6 day 45 06-Aug-16 CONS.C1.8700 Excavate and install Drainage Pipes and Construct Manholes & Backfill CAL 2 - 6 day CONS.C1.8710 Excavate and Install Fresh Water Mains & Flush Water Main + Hydrotest, 60 27-Aug-16 09-Nov-16 Clean & Flushing and Connection CAL 2 - 6 day 72 23-Sep-16 17-Dec-16 CONS.C1.8720 Construct U-Structure - Base Slab and Walls CAL 2 - 6 day 60 07-Nov-16 18-Jan-17 CONS.C1.8730 Construct Plain ad Ribbed Finishes to Walls CAL 2 - 6 day 04-Mar-17 36 19-Jan-17 CONS.C1.8740 Backfill and Compaction 24 06-Mar-17 CAL 2 - 6 day CONS.C1.8750 Construct Footing for Road Lighting and Signages CAL 2 - 6 day 12 03-Apr-17 20-Apr-17 CONS.C1.8760 Install Ducting and Drawpits for Road Lighting 12 21-Apr-17 CAL 2 - 6 day CONS.C1.8770 Install Road Lighting and Signages + Cabling and Termination CAL 2 - 6 day 7 08-May-17 15-May-17 CONS.C1.8780 Road Paving and Road Markings Under Ground Utilties (Power, Water & Telecom) Work in Portion D1 and D2 Sewage Rising main 21-Dec-15 � CAL 2 - 6 day 0 21-Dec-15 CONS.RM.1010 Commence Works on Rising Main CAL 2 - 6 day 6 21-Dec-15 29-Dec-15 CONS.RM.1020 Site Survey / Setting Out Sewerage Alignment CAL 2 - 6 day 60 30-Dec-15 CONS.RM.1030 Excavate to Invert Level & Install 2 Sewage Rising Main DN100 CHC & CHD 07-Apr-16 CAL 2 - 6 day CONS.RM.1040 Construct Thrust Block CAL 2 - 6 day 21-Apr-16 CONS.RM.1050 Gravity Flow Testing 12 08-Apr-16 CAL 2 - 6 day CONS.RM.1060 Backfill CLP Cables and Telecom Crossing at Portion D2 and D1 60 13-Jul-16 22-Sep-16 CAL 2 - 6 day CONS.RW.2800 Excavate and Install Common Telecom Ducting and Telecom Ducting by CAL 2 · 6 day 36 22-Sep-16 04-Nov-16 CONS.RW.2810 Excavate and Install CLP 11kv Cables CAL 2 - 6 day 18 05-Nov-16 25-Nov-16 CONS.RW.2820 Backfill and reinstate ground Portion A1 and A2 - Sub-Base Area 多 CAL 2 - 6 day 24 13-Jan-17 13-Feb-17 Demobilisation of Temporary Facilities on Site CONS A1,4430 12 14-Feb-17 CAL 2 - 6 day Site Survey / Site Clearing CONS.A1.4440 CAL 2 - 6 day 20 28-Feb-17 22-Mar-17 CONS.A1.4450 Area to Formation Level CAL 2 - 6 day 40 23-Mar-17 15-May-17 Sub-Base Material Topping (Area 29,963 m2 x 100mm thk Subbase) CONS.A1.4460 Pomp House com Switch Room CAL 2 - 6 day 0 04-Mar-16 Commence Pump House Cum Switch Room (2B+ GF) CONS.C1.5110 6 04-Mar-16 10-Mar-16 CAL 2 - 6 day CONS.C1.5120 Mobilisation / Survey/ Setting Out CAL 2 - 6 day 20 10-Mar-16 06-Apr-16 CONS.C1.5125 Sheet Piling CAL 2 - 6 day 24 07-Apr-16 CONS.C1.5130 Install Dewatering Wells + Pump Test CAL 2 - 6 day 11-Jul-16 ELS Works to Formation level (Basement 2) CONS.C1.5140 CAL 2 - 6 day Blinding, Waterproofing and Base Slab 20 12-Jul-16 03-Aug-16 CONS.C1.5150

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Data Date: 27-Feb-15 Page: 18 / 24 Print Date: 23-Apr-15 13:05 ONDJEMAMJJJJASONDJEMAMJJJJASONDJEMAMJJJJASONDJEMAMJJJJAS Örig Dur Early Start Early Finis Activity ID CAL 2 - 6 day 24 04-Aug-16 31-Aug-16 Construct Walls and Slab to Upper Basement CONS.C1.5160 CAL 2 - 6 day 24 01-Sep-16 30-Sep-16 Construct Walls and Slab to Ground Level CONS C1.5170 CAL 2 - 6 day Linked to KD6 24 03-Oct-16 31-Oct-16 CONS.C1.5200 Construct Walls and Roof Slab CAL 2 - 6 day 16-Nov-16 ABWF & Building Services Works to Pump House / Switch Room 14 01-Nov-16 CONS.C1.5205 CAL 2 - 6 day Achievement of Stage 5 (KD6) / Interface with C3 CONS.C1.5210 CAL 2 - 6 day 75 17-Nov-16 18-Feb-17 CONS.C1.5215 Building Services Installation CAL 2 - 6 day 18-Feb-17 75 17-Nov-16 MEP Installation for Pump House/Switch Room (By C3) CONS.C1.5220 18-Feb-17 CAL 2 - 6 day CONS.C1.5235 ABWF Works + External Works CAL 2 - 6 day 06-May-17 60 20-Feb-17 T&C and Statutory Permits/Certification (FS, BD) CONS.C1.5240 Prelimnary Driven H Piles and Load Testing 13-Sep-15 ◆ CAL1 - 7 day 0 13-Sep-15 Commence Preliminary Driven H Pile for Sign Gantry CONS.C1.0510 12 13-Sep-15 24-Sep-15 CAL 1 - 7 day CONS.C1.0520 Mobilise Plant & Set-up Support CAL 2 - 6 day 2 nos x 5 days 08-Oct-15 10 25-Seo-15 CONS.C1.0530.10 Pre-drilling (2 nos) 17-Oct-15 CAL 2 - 6 day 8 09-Oct-15 CONS.C1.0530.20 GI Report and Verification / Agreement to Founding Level CAL 1 - 7 day 2 nos x 2.5 days / Pile - 1 rig 5 18-Oct-15 22-Oct-15 CONS.C1.0540 Preliminary Driven H Pile (2 nos) CAL 1 - 7 day 28 23-Oct-15 19-Nov-15 Pile Load Testing and Submit Report CONS.C1.0550 Sign Gantry Footings at Grade in Portion A1 DS303 (Driven H Pile) 20-Nov-15 • 0 20-Nov-15 CAL 2 - 6 day CONS.A1.4360 Commence Foundation / Footing for Sign Gantry CAL 2 - 6 day 6 20-Nov-15 26-Nov-15 10 CONS.A1.4370 Mobilise Plant + Survey / Setting Out CAL 2 - 6 day 12 nos x 5 days / 2 rigs 30 27-Nov-15 CONS.A1.4380.10 Predrilling (12 nos) CAL 2 - 6 day 18-Jan-16 10 CONS.A1.4380.20 GI Report and Verification / Agreement to Founding Level CAL 2 - 6 day 12 nos x 2.5 d / Driven H-Pile 13-Feb-16 30 07-Jan-16 Piling Works - Driven H Pile (12 nos) CONS A1,4390 CAL 2 - 6 day 30 15-Feb-16 19-Mar-16 CONS.A1.4410 Excavation, Pile Trimming + Cast Pile Caps ( 3 nos) 20 CAL 2 - 6 day 07-Apr-16 12 21-Mar-16 Backfill Foundation CONS.A1.4420 Sign Gantry Footing at Grade in Portion C1 & Portion D1 DS302 (610mm dia. Prebored H Pile) 12-Sep-15 � CAL 2 - 6 day 0 12-Sep-15 Commence Foundation / Footing for Sign Gantry CONS.D1.3380 10 12-Sep-15 23-Sep-15 14 CAL 2 - 6 day CONS.D1.3390 Mobilisation/Survey/Setting Out CAL 2 - 6 day 8 nos x 5 days / 2 rigs 19-Oct-15 20 24-Sep-15 CONS.D1.3400.10 Predrilling for Prebored H Pile (8 nos) 0 29-Oct-15 CAL 2 - 6 day 8 20-Oct-15 CONS.D1.3400.20 GI Report and Verification / Agreement to Founding Level CAL 2 - 6 day 8 nos x 6 days / Pile - 1 rig 48 30-Oct-15 24-Dec-15 Pre-hored Socket H-Pile (8 nos) CONS.D1.3410 CAL 2 - 6 day 48 02-Dec-15 29-Jan-16 CONS.D1.3420 01-Mar-16 CAL 2 - 6 day CONS.D1.3430 Excavation, Pile Trimming + Pile Caps ( 2 nos) CAL 2 - 6 day 12 02-Mar-16 15-Mar-16 CONS.D1.3440 Backfill Foundation GT408 (Driven H Pile) 06-Nov-15 . CAL 2 - 6 day Commence Foundation / Footing for Sign Gantry 0 06-Nov-15 CONS.C1.4010 CAL 2 - 6 day 2 06-Nov-15 CONS.C1.4020 Survey / Setting Out CAL 2 - 6 day 8 nos x 5 days / 2 rigs 20 09-Nov-15 01-Dec-15 CONS.C1.4030.10 Predrilling (8 nos) CAL 2 - 6 day 8 02-Dec-15 10-Dec-15 CONS.C1.4030.20 GI Report and Verification / Agreement to Founding Level CAL 2 - 6 day 8 nos x 2.5 days 20 11-Dec-15 06-3an-16 CONS.C1.4040 Piling Works - Driven H Pile (8 nos) CAL 2 - 6 day Excavation, Pile Trimming + Cast Pile Caps ( 2 nos) 20 07-Jan-16 29-Jan-16 CONS.C1.4060 CAL 2 - 6 day 6 30-Jan-16 CONS.C1.4070 DS44 (Driven H Pile)

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Activity ID	Admiy Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks				2015	SON	5	FINIAL	2016	Alelo	IN LD	I E M A	2017	اعلمان	olwin	JEM		2018	SIOINI	DJE	2019 M A M	J Jul A 3
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Commence Foundation / Footing for Sign Gantry		07-Jan-16		0	CAL 2 - 6 day	OND	7 1 1	MIAIM	J Jul A	07-Jan-1		F [Wi A]	VI J Juli	Alsio	INIDI	31111117	1 101 3 30	1 7 0	21.7.12	0 1 1 1 1	1 1 1					
CONS.C1.4080			07-Jan-16	08-Jan-16	0	CAL 2 - 6 day	:					ı									. : :						
	Survey / Setting Out		09-Jan-16	01-Feb-16	0	CAL 2 - 6 day 8 nos x 5 days / 2 rigs	:					- Sec.															
	Predrilling (8 nos)		02-Feb-16	13-Feb-16	2	CAL 2 - 6 day						2															
Š.	GI Report and Verification / Agreement to Founding Level		15-Feb-16	08-Mar-16		CAL 2 - 6 day 8 nos x 2.5 days																					
CONS.C1.4110	Piling Works - Driven H Pile (8 nos)			05-Apr-16	16	CAL 2 - 6 day																					
CONS.C1.4130	Excavation, Pile Trimming + Cast Pile Caps ( 2 nos)		09-Mar-16		16	CAL 2 · 6 day							D								:						
CONS.C1.4140	Backfill Foundation	<b>D</b> Nacional de sentación de sentación de sentación de sentación de sentación de sentación de sentación de sentaci	D6-Apr-16	12-Apr-16		CALL VOO,																					
DS261 (Driver						CAL 2 - 6 day		ļ . i			02-Fr	eb-16 ◆				#		<u> </u>			<del>   -</del>		4				
CONS.C1.4150	Commence Foundation / Footing for Sign Gantry		02-Feb-16	00 F-1- 41	0																						
CONS.C1.4160	Survey / Setting Out		02-Feb-16	03-Feb-16		CAL 2 · 6 day																					
<b>84</b> 3	Predrilling (8 nos)		04-Feb-16	01-Mar-16		CAL 2 - 6 day 8 nos x 5 days / 2 rigs	:										1 1 1			: :							
CONS.C1.4170.20	GI Report and Verification / Agreement to Founding Level	8	02-Mar-16	10-Mar-16	0	CAL 2 - 6 day							<b>5</b> 703														
CONS.C1.4180	Piling Works - Driven H Pile (8 nos)	20	11-Mar-16	07-Apr-16	0	CAL 2 - 6 day 8 nos x 2.5 days							esta esta esta esta esta esta esta esta		[] .			4.4.4.									
CONS.C1.4200	Excavation, Pile Trimming + Cast Pile Caps ( 2 nos)	20	08-Apr-16	30-Apr-16	0	CAL 2 - 6 day							eni.														
CONS.C1.4210	Backfill Foundation	6	03-May-16	09-May-16	5 0	CAL 2 · 6 day																					
ADS301 (Driv	en H Pile)			1 3 31.50																							
CONS.C1.4220	Commence Foundation / Footing for Sign Gantry	0	02-Mar-16	CO I CARACTER CONTRACTOR	0	CAL 2 - 6 day						02-Mar-16	• • · · ·														
CONS.C1.4230	Survey / Setting Out	2	02-Mar-16	03-Mar-16	5 0	CAL 2 · 6 day							,														
CONS.C1,4240.10	) Predrilling (12 nos)	20	04-Mar-16	30-Mar-16	5 0	CAL 2 - 6 day 12 nos x 5 days / 3 rigs																					
CONS.C1.4240.20	GI Report and Verification / Agreement to Founding Level	8	31-Mar-16	09-Apr-16	5 0	CAL 2 - 6 day														: :							
CONS.C1.4250	Piling Works - Driven H Pile (12 nos)	30	11-Apr-16	17-May-10	6 0	CAL 2 - 6 day 12 nos x 2.5 days / Driven H-F	ile :							20													
CONS.C1.4270	Excavation, Pile Trimming + Cast Pile Caps ( 3 nos)	30	18-May-16	22-Jun-16	5 8	CAL 2 - 6 day																					
CONS.C1.4280	Backfill Foundation	8	23-Jun-16	02-Jul-16	8	CAL 2 - 6 day																					
FAD5303 (Dri	ven H Pile)																										-
CONS.C1.4290		0	31-Mar-16		8	CAL 2 - 6 day						31-Ma	ar-16 🍫														
CONS.C1.4300	Survey / Setting Out	2	31-Mar-16	01-Apr-1	6 8	CAL 2 - 6 day							- !														
CONS.C1.4310.1	0 Predrilling (8 nos)	20	02-Apr-16	26-Apr-1	6 8	CAL 2 - 6 day 8 nos x 5 days / 2 rigs																					
	0 GI Report and Verification / Agreement to Founding Level	8	27-Apr-16	06-May-1	6 8	CAL 2 - 6 day	:						ζ	)		; :											
		16	18-May-16	04 <b>-</b> 3un-1	6 0	CAL 2 - 6 day 8 nos x 2.5 days		1	1 1 1																		
CONS.C1.4340	Excavation, Pile Trimming + Cast Pile Caps ( 2 nos)	20	06-Jun-16	29-Jun-1	6 0	CAL 2 - 6 day																					
		12	30-Jun-16	14-30-10	5 0	CAL 2 - 6 day																					
	gn Gantry and High Mast for TCSS Works															1 :											
CONS.C1.4360	Erection of Sign Gantry & High Mast Structure and Associated Conduits for	or 90	03-May-16	18-Aug-1	.6 0	CAL 2 - 6 day KD1 and KD3																					
	TCSS Works																- 1 - 1 - 1										
RelatingW					and market	And the state of t																					
	lls in Portion A1 & Portion A6																										
RW11 (42m		٥	) 22-Jul-15		9 9 0 5 7	CAL 2 - 6 day		1	22-	lul-15 ♦																	
	Commence RW11 Retaining Wall (42m / 3 bays)				5 7	CAL 2 - 6 day				0																	
CONS.A1.3330			5 22-Jul-15 8 29-Jul-15			CAL 2 - 6 day					<u> </u>										1						
CONS.A1.3340						CAL 2 - 6 day 3 bays x 12 days					: : : : : : : : : : : : : : : : : : :					: !									.		
CONS.A1.3350			5 19-Aug-15			CAL 2 - 6 day																			:   :		
CONS.A1.3360		<b>24</b> 	4 16-Sep-15	15-Oct-1		CALL-V day		'																			
RW14A (29л						CN 3.5 days		:		h2-0-	t-15 �																
CONS.A1.3380	Commence RW14a Retaining Wall (29m / 2 bays)		0 02-Oct-15		- 11	CAL 2 - 6 day				, , , , , , , , , , , , , , , , , , ,	1		ļļ <u>i</u>														
CONS.A1.3390	Survey / Setting Out		5 02-Oct-15			CAL 2 - 6 day																					
CONS.A1.3400	Excavate to formation level (open cut / slope)	12	2 05-Oct-15	17-Oct-:	15 11	CAL 2 - 6 day		- :	1			.		:	<u>:                                    </u>					<u> </u>	. :			<u>: : : :</u>		<u> </u>	<u> </u>
16E																											

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion) Page: 20 / 24 Data Date: 27-Feb-15 Print Date: 23-Apr-15 13:05 O N D J F M A M J J A S O N D J F M A M J 3 A S O N D J F M A M J 3 A S O N D J F M A M J 3 A S O N D J F M A M J 3 A S Activity ID CAL 2 - 6 day 2 bays x 12 days 16-Nov-15 11 24 19-Oct-15 Cast Base & Wall Stem 2 bays (ribbed finish to 1m below F.G.L) CONS.A1.3410 CAL 2 - 6 day 11 12 17-Nov-15 30-Nov-15 Backfill to final ground level CONS.A1.3420 RW16N (15m / 1 bay) 18-Jul-16: ◆ 0 18-Jul-16 CAL 2 - 5 day Commerce RW16n Retaining Wall (29m / 2 bays) CONS.A1.3440 CAL 2 - 6 day 21-101-16 4 18-Jul-15 CONS.A1.3450 CAL 2 - 6 day 04-Aug-16 12 22-Jul-16 Excavate to formation level (open cut / slope) CONS.A1.3460 CAL 2 - 6 day 1 bay x 18 days 20 05-Aug-16 27-Aug-16 Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L) CONS.A1.3470 CAL 2 - 6 day 14 29-Aug-16 13-Sep-16 Install U/G Utilities - TCSS, ELV & LV Ducting CONS.A1.3480 12 14-Sep-16 CAL 2 - 6 day Backfill to final ground level CONS.A1.3490 RW16S (15m / 1 bay) 14-Sep-16 • CAL 2 - 6 day 0 14-Sep-16 Commence RW16s Retaining Wall (29m / 2 bays) CONS.A1.3500 CAL 2 - 6 day 4 14-Sep-16 20-Sep-16 CONS.A1.3510 Survey / Setting Out CAL 2 - 6 day 04-Oct-16 12 20-Sep-16 Excavate to formation level (open cut / slope) CONS.A1.3520 CAL 2 - 6 day 1 bay x 12 days 20 05-Oct-16 Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L) CONS.A1.3530 CAL 2 - 6 day 14 29-Oct-16 14-Nov-16 Install U/G Utilities - TCSS, ELV & LV Ducting & Draw Pits CONS.A1.3540 CAL 2 - 6 day 12 15-Nov-16 Backfill to final ground level CONS.A1.3550 Retaining Walls in Portion C1 RW1 (51m / 4 bays) 17-Jun-16 • 0 17-Jun-16 CAL 2 - 6 day Commence RW1 Retaining Wall CONS.C2.3140 CAL 2 - 6 day 6 17-Jun-16 23-Jun-16 CONS.C2.3150 Survey / Setting Out CAL 2 - 6 day 18-Jul-16 Excavate to formation level (open cut / slope) CONS.C2.3160 CAL 2 - 6 day 4 bays x 12 days 48 09-Jul-16 02-Sep-16 Cast Base & Wall Stem 4 bays (ribbed finish to 1m below F.G.L) CONS.C2.3170 CAL 2 - 6 day 12-Oct-16 30 03-Sep-16 Sackfill to final ground level and Reinstate Roads CON5.C2.3180 RW1a (176m / 11 bays) 06-Jul-16 🍁 CAL 2 - 6 day 23 0 06-Jul-16 CONS.C2.3200 Commence RW1a Retaining Wall 6 06-Jul-16 12-Jul-16 23 CAL 2 - 6 day Survey / Setting Out CONS.C2.3210 CAL 2 - 6 day 60 13-Jul-16 22-Sep-16 Excavate to formation level (open cut / slope) CONS.C2.3220 CAL 2 - 6 day 11 bays x 12 days / 2 WF 05-Nov-16 72 10-Aug-16 Cast Base & Wall Stem (ribbed finish to 1m below F.G.L) CONS.C2.3230 CAL 2 - 6 day 17-Dec-16 Backfill to final ground level and Reinstate Roads CONS.C2.3240 CAL 2 - 6 day 24 19-Dec-16 18-Jan-17 Install Railing for RW1 and RW1a CONS.C2.3250 RW8 (35m / 3 bays) 16-Oct-15 � CAL 2 - 6 day 0 16-Oct-15 CONS.C2.3320 Commence RW8 Retaining Wall CAL 2 - 6 day 22-Oct-15 5 16-Oct-15 Survey / Setting Out CONS.C2.3330 Ó CAL 2 - 6 day 12 23-Oct-15 05-Nov-15 CONS.C2.3340 Excavate to formation level (open cut / slope) CAL 2 - 6 day 3 bays x 12 days 36 06-Nov-15 17-Dec-15 Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L) CONS.C2.3350 CAL 2 - 6 day 16 18-Dec-15 08-Jan-16 Backfill to final ground level & Reinstate Road CONS.C2.3360 RW13 (40m / 3 bays) 18-Dec-15 • CAL 2 - 6 day 0 18-Dec-15 Commence RW13 Retaining Wall CONS.C2.3260 CAL 2 - 6 day 21-Dec-15 CONS.C2.3270 Survey / Setting Out CAL 2 - 6 day 05-Jan-16 1B 22-Dec-15 Excavate to formation level (open cut / slope) CONS.C2.3280 CAL 2 - 6 day 3 bays x 12 days Cast Base & Wali Stem 3 bays (ribbed finish to 1m below F.G.L) 19-Feb-16 CONS.C2.3290 CAL 2 - 6 day 12 20-Feb-16 04-Mar-16 Backfill to final ground level and Reinstate Road

CON5.C2.3300

Zone AC4

Lamiscaphigand trilgation System Landscaping - Water Meter W04

Data Date: 27-Feb-15

Print Date: 23-Apr-15 13:05

Activity ID

Activity Name

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Calendar Remarks

OND J F M A M J Jul A S OND J F M A M J Jul A S

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Adivity ID	Activity Name Ork	Dur Early Start	Early Finish	Total Float	Calendar Remarks	ONDJF	2015 FMAMJJJJASONE	2016 D J F M A M J Jul A S O N E	2017 D J F M A M J Jul A S O N	D J F M A M J Jul A S O N D J F M A M J Jul A S
CONS.A1.8120	Commence Landscape Works in Zone AC4	0 22-Mar-16	<u></u>	0	CAL 2 - 6 day Area 32,410 m2			22-Mar-16 ◆		
CONS.A1.8130	Top Soil to Landscaped Areas (600mm)	98 22-Mar-16	22-Jui-16	0	CAL 2 - 6 day 19,446 m3 / 200 m3 / day					
CONS.A1.8140	Instali Irrigation System Main Lines (900mm dia)	60 17-Jun-16	26-Aug-16	0	CAL 2 - 6 day			830430		
CONS.A1.8150	Install Lateral Irrigation Pipes & Sprinklers	60 23-Jul-16	04-Oct-16	0	CAL 2 - 6 day					
	Irrigation Coverage Test	18 05-Oct-16	26-Oct-16	0	CAL 2 - 6 day					
CONS.A1.8160	Soft Landscaping - Shrubs Planting / Ground Cover	81 27-Oct-16	04-Feb-17	0	CAL 2 - 6 day Area 32,410 m2 / 10 m2 /					
CONS.A1.8170		0	04-Feb-17	0	manday / 40 workers  CAL 2 - 6 day KD8				♦ 04-Feb-17	
CONS.A1.8180	Complete Landscape Works Zone AC4	•								
	tworks in Portion A6 and B5	0 13-Mar-17*		0	CAL 2 - 6 day Area 13,890 m2			1	3-Mar-17 .◆	
	Commence Landscape Works in Zone AC4 in Portlon A6 & 85	36 13-Mar-17	27-Apr-17	0	CAL 2 - 6 day					
	Clearing of unsuitable materials	74 28-Apr-17	27-Jul-17	D	CAL 2 - 6 day 8,334 m3 / 100 m3 / day					
CON5.A1.8600	Top Soil to Landscaped Areas		19-Oct-17	n	CAL 2 - 6 day				and the second s	
CONS.A1.8610	Install Irrigation System Main Lines (900mm dia)	70 28-Jul-17		0	CAL 2 - 6 day					
CONS.A 1.8620	Install Lateral Irrigation Pipes & Sprinklers	60 20-Oct-17	02-Jan-18	0						
CONS.A1.8630	Irrigation Coverage Test	12 03-Jan-18	16-Jan-18	0	CAL 2 - 6 day  CAL 2 - 6 day Area 13,890 m2 / 10 m2 /					
CONS.A1.8640	Soft Landscaping - Shrubs Planting / Ground Cover	90 17-Jan-18	10-May-18	U	manday / 20 workers					. • 10-May-18
CONS.A1.8650	Complete Landscape Works Zone AC4 (KD16)	0	10-May-18	0	CAL 2 - 6 day KD14					
CONS.A1.8660	Establishment Works for Landscape Softworks in Portion A6 and B5	365 11-May-18	10-May-19	0	CAL 1 - 7 day KD16					
Zone BC4								23-Jul-16 ◆		
CONS.A1.8200	Commence Landscape Works in Zone BC4	0 23-Jul-16		1	CAL 2 - 6 day Area 22,400 m2			2530110 🗸		
CONS.A1.8210	Top Soil to Landscaped Areas	90 23-Jul-16	09-Nov-16	1	CAL 2 · 6 day 13,440 m3 / 150m3 / day					
CONS.A1.8220	Install Irrigation System Main Lines (900mm dia)	60 03-Oct-16	12-Dec-16	1	CAL 2 - 6 day			POST	A COLUMN TO THE	
CONS.A1.8230	Install Lateral Irrigation Pipes & Sprinklers	60 05-Nov-16	17-Jan-17	I	CAL 2 - 6 day			45.000	AMAL PAN	
CONS.A1.8240	Irrigation Coverage Test	12 18-Jan-17	03-Feb-17	1	CAL 2 - 6 day					
CONS.A1.8250	Soft Landscaping - Shrubs Planting / Ground Cover	56 06-Feb-17	12-Apr-17	0	CAL 2 - 6 day Area 22,400 m2 / 10 m2 / manday / 40 workers					
CONS.A1.8260	Complete Landscape Works in Zone BC4	0	12-Apr-17	0	CAL 2 - 6 day				♦ 12-Apr-17	
Zone CC4  CONS.A1.8280	Commence Landscape Works in Zone CC4	0 10-Nov-16		17	CAL 2 - 6 day Area 7000 m2			10-Nov-16 <b>♦</b>		
CONS.A1.8290	Top Soil to Landscaped Areas	42 10-Nov-16	30-Dec-16	17	CAL 2 - 6 day 4200 m3 / 100 m2 / day					
CONS.A1.8300	Install Irrigation System Main Lines (900mm dia)	30 31-Dec-16	08-Feb-17	17	CAL 2 - 6 day					
CONS.A1.8310	Install Lateral Irrigation Pipes & Sprinklers	30 09-Feb-17	15-Mar-17	17	CAL 2 - 6 day					
CONS.A1.8320	Irrigation Coverage Test	6 16-Mar-17	22-Mar-17	17	CAL 2 - 6 day				0	
CONS.A1.8330	Soft Landscaping - Shrubs Planting / Ground Cover	20 13-Apr-17	11-May-17	0	CAL 2 - 6 day 7000 m2 / 10 m2 / 30 Workers					
CONS.A1.8340	Complete Landscape Works in Zone CC4	0	11-May-17	0	CAL 2 - 6 day				◆ 11-May-17	
Zone DC4  CONS.A1.8360	Commence Landscape Works in DC4	0 31-Dec-16		37	CAL 2 - 6 day Area 130 m2			31-Dec-14	5 🛉	
CONS.A1.8370	Top Soil to Landscaped Areas	2 31-Dec-16	03-Jan-17	37	CAL 2 - 6 day 78 m3					
CONS.A1.8380	Install Irrigation System Main Lines (900mm dia)	12 04-Jan-17	17-Jan-17	7\$	CAL 2 - 6 day					
CONS.A1.8390	Install Lateral Trigation Pipes & Sprinklers	12 18-Jan-17	03-Feb-17	75	CAL 2 - 6 day					
	Irrigation Coverage Test	2 04-Feb-17	06-Feb-17	75	CAL 2 - 6 day					
CONS.A1.8400	·	3 12-May-17		0	CAL 2 - 6 day 130 m2 / 10 m2 / 5 workers					
CONS.A1.8410	Complete Landscape Works in Portion C1 (West Section)	0	15-May-17	0	CAL 2 - 6 day				◆ 15-May-17	
Zone EC4		0 04-Jan-17	,	37	CAL 2 - 6 day Area 2300 m2			04-Jan-	17	
CONS.A1.8440		14 04-Jan-17	19-Jan-17	37	CAL 2 - 6 day 1380 m3 / 100 m3 / day				o i i i i i i i i i i i i i i i i i i i	
CONS.A1.8450		12 20-Jan-17		37	CAL 2 - 6 day					
CONS.A1.8460	Install Irrigation System Main Lines	74 TO-1016.11	55.65.47							

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## Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)



### Appendix D. Event and Action Plan

#### **Event/Action Plan for Air Quality**

EVENT		ACTION AC	ON	Naj Najana.
	ET .	IEC	ER .	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures;     Inform IEC and ER;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily.	Check monitoring data submitted by ET;     Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice;     Amend working methods if appropriate.
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurement s to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	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.	Confirm receipt of notification of failure in writing;     Notify Contractor;     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		A	CTION	
		ET	IEC	ER	CONTRACTOR
Ţ	IMIT LEVEL				
1.	Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor or possible remedial measures; 4. Advise the ER on the effectivene of the proposed remedial measure 5. Supervise implementation of remedial measures.	ss es;	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.
2.	Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER,         Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement         to confirm findings;</li> <li>Increase monitoring         frequency to daily;</li> <li>Carry out analysis of         Contractor's working         procedures to         determine possible         mitigation to be         implemented;</li> <li>Arrange meeting with         IEC and ER to         discuss the remedial         actions to be taken;</li> <li>Assess effectiveness         of Contractor's         remedial actions and         keep IEC, EPD and         ER informed of the         results;</li> <li>If exceedance stops,         cease additional         monitoring.</li> </ol>	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 exceedance is abated.

#### **Event / Action Plan for Construction Noise Monitoring**

EVENT		ACTION		
ĺ	EI	IEC	E	CONTRACTOR
	exceedance and propose remedial measures; 3. Report the results of investigation to the	1 ' '	notification of failure in writing; 2. Notify Contractor;	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	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.

### Contract No. HY/2013/04 HZMB HKBCF - Infrastructure Works Stage II (Southern Portion)



### Appendix E Waste Flow Table

Name of Department: Highways Department Contract No.: HY/2013/04

#### Monthly Summary Waste Flow Table for 2015 (Year)

		Actual Qua	ntities of Inert C&D	Materials Generat	ed Monthly			Actual Quantities	s of C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (Note 1)	Chemical Waste	Others, e.g. general refuse
	(in '000m³)	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m³)	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan											
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0
Aug											
Sep											ļ
Oct											
Nov											
Dec											
Total	0	0	0	0	0	0	0	0	0	0	0

Note: (1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

### Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)



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# Appendix E Environmental Licenses and Permits

#### Environmental Licenses and Permits

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1	Environmental Permit under EIAO	EP-353/2009/I	30 Jun 2015	17 Jul 2015	N/A	Issued
2	Construction Dust Notification (HKBCF Southern Portion)	387156	26 Mar 2015	1 Apr 2015	N/A	Notified
3	Construction Waste Disposal Account	7022038	16 Mar 2015	1 Apr 2015	N/A	Account approved
4	Registration as a Chemical Waste Producer (HKBCF Southern Portion)	Waste Producer Number (WPN): 5213-951-C3952-01	27 Mar 2015	27 Apr 2015	N/A	Registration completed
5	Discharge Licence under WPCO (Works Area WA3)	-	1 Jun 2015	N/A	N/A	Application in progress

## Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)



The Contra Paper by Jev 2018

### Appendix G. Implementation Schedule for Environmental Mitigation Measures (EMIS)

				Indicated and the
Air Oualibr		Remainings with the state	100-1986 	
<b>Air Quality</b> S5.5.6.1	A1	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	Proper watering of exposed spoil should be undertaken throughout the construction phase:	All construction sites	V
		<ul> <li>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;</li> </ul>		
		<ul> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul>		
		A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.		
		<ul> <li>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;</li> </ul>		
		<ul> <li>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;</li> </ul>		
S5.5,6.2	A2	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;	All construction sites	V
		<ul> <li>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;</li> </ul>		
		<ul> <li>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;</li> </ul>		
		<ul> <li>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;</li> </ul>		
		<ul> <li>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;</li> </ul>		
		<ul> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> </ul>		
		<ul> <li>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 and the 3 sides</li> </ul>		
S5.5.6.2	A2	<ul> <li>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;</li> </ul>	All construction sites	V
		<ul> <li>Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> </ul>		

514-14-5	Loig Red	Recommended Mitigation Measures	Transport of the State of the S	infolomenemon Seme
		<ul> <li>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.</li> </ul>		
S5.5.6.3	А3	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	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	Implement regular dust monitoring under EM&A programme during the construction stage.	Selected representative dust monitoring station	N/A
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:	Selected representative dust	N/A
		Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;	monitoring station	
		<ul> <li>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;</li> </ul>		
		Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;		
	should be wetted by water spray system; • All receiving hoppers should be enclosed on three si	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;	m	
		All conveyor transfer points should be totally enclosed;		
		All access and route roads within the premises should be paved and wetted; and		
		<ul> <li>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.</li> </ul>		
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:	All construction sites	N/A
		<ul> <li>All road surface within the barging facilities will be paved;</li> </ul>		
		<ul> <li>Dust enclosures will be provided for the loading ramp;</li> </ul>		
		<ul> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> </ul>		
Constructio				
S6.4.10	N1	Use of good site practices to limit noise emissions by considering the following:	All construction sites	V
		<ul> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> </ul>		
		<ul> <li>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;</li> </ul>		
		<ul> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> </ul>		
		silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;		

12 (1.7 kg)	F 151.074	Resonmended Misganos Measures	ខរទេវាពា ស្វិទីព្រះ ពេលវាពីជា	lmplemelnäts Saiss
		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	<ol> <li>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.</li> </ol>	All construction sites	N/A
S6.4.12	N3	<ol> <li>Install movable noise barriers (typically density @14kg/m²), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.</li> </ol>	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 sites	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	All construction sites where practicable	N/A
	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	N/A
Sediment				
S7.3	S1	The requirements as recommended in ETWB TC(W) 34/2002     Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Man	agement (0	Construction Noise)		
S8.3.8	WM1	Construction and Demolition Material	All construction sites	N/A
		The following mitigation measures should be implemented in handling the waste:		
		<ul> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> </ul>		
		Carry out on-site sorting;		
		<ul> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> </ul>		
		<ul> <li>Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> </ul>		
		<ul> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> </ul>		
		<ul> <li>Implement an enhanced W aste Management Plan similar to ETWB TC(W) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> </ul>		
		<ul> <li>In addition, disposal of the C&amp;D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation.</li> </ul>		
\$8.3.9-	WM2	C&D Waste	All construction sites	N/A
S8.3.11		<ul> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;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</li> </ul>		

951.V70.78	ken Rij	Recommended Mitigation Measures	e Egentoj postin Grievatijes	Inplementation Shitts
		<ul> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;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.</li> </ul>		
S8.2.12-	WM3	Chemical Waste	All construction sites	N/A
S8.3.15		<ul> <li>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.</li> </ul>		
		<ul> <li>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.</li> </ul>		
		• The storage area for chemical wastes should be clearly labelled 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.		
		<ul> <li>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 a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.</li> </ul>		
S8.3.16	WM4	<u>Sewage</u>	All construction sites	N/A
		<ul> <li>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.</li> </ul>		
S8.3.17	WM5	General Refuse	All construction sites	V
		<ul> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> </ul>		
		<ul> <li>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 law.</li> </ul>		
		<ul> <li>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.</li> </ul>		
		<ul> <li>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. In addition, waste separation facilities for paper, aluminium cans, plastic bottles etc., should be provided.</li> </ul>		

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cleanliness and appropriate waste management procedure. including reduction, reuse and recycling of wastes.

#### Water Quality (Construction Phase)

#### \$9,11,1,7 W2 Land Works

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:

- · 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 W PCO 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. Catchoits 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
- 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:
- · 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 washing bay and the public road should be surfaced with crushed stone or coarse gravel;
- · 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 W PCO 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

Land-based works areas

Et Milita	100 100	Recommended Minigation Measures	La como marcina.	hijan
		immediately;		STRIPLY.
		<ul> <li>waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance;</li> </ul>		
		<ul> <li>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</li> </ul>		
		<ul> <li>surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.</li> </ul>		
Ecology (C	onstructio	on Phase)	n magazinen (in manus 1777-2000), m. az abel (in hanna 2018), m. az abel (in hanna 2018), m. az abel (inh manus 2018), m. az abel (i	
S10.7	E4	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	N/A
S10.7	E5	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	N/A
S10.7	E8	Control vessel speed	Marine Traffic	N/A
		Skipper training		
		<ul> <li>Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>		
Fisheries				
S11.7	F4	Maritime Oil Spill Response Plan (MOSRP);     Contingency plan.	HKBCF	N/A
Landscape	& Visual (	(Detailed Design Phase)		
S14.3.3.1	LV1	General design measures include:	HKBCF	۷
		<ul> <li>Roadside planting and planting along the edge of the HKBCF Island is proposed;</li> </ul>		
		<ul> <li>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;</li> </ul>		
		<ul> <li>Protection measures for the trees to be retained during construction activities;</li> </ul>		
		<ul> <li>Optimizing the sizes and spacing of the bridge columns; Fine- tuning the location of the bridge columns to avoid visually-sensitive locations;</li> </ul>		
		<ul> <li>Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed;</li> </ul>		
		<ul> <li>Providing planting area around peripheral of HKBCF for tree planting screening effect;</li> </ul>		
		<ul> <li>Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> </ul>		
		<ul> <li>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; and</li> </ul>		
		<ul> <li>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.</li> </ul>		
Landscape	& Visual (	Construction Phase)		

	E1117.5		konstitui to titic	mpiemenedos.
13/14761		Recommended Mitigation Wassilves		
e summer et en en en en en en en en en en en en en		G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.	macrom constitutes the table of the table of the table of the table of the table of the table of the table of	ung yay a na gusumun ta tunun ungunun er Garl Cort Garl Garl Garl Garl Garl Garl Garl Garl
		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.		
S14.3.3.3	LV3	Mitigate Visual Impacts		N/A
		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.		
EM&A				Militaria ( ) o o o o o o o o o o o o o o o o o o
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	An Environmental Team needs to be employed as per the EM&A Manual.	All construction sites	V
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.		
		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.		

#### Contract No. HY/2013/04 HZMB HKBCF - Infrastructure Works Stage II (Southern Portion)



Appendix H. Statistics on Environmental Complaints, Notification of Bummons and Successful Prosecutions

### Statistics on Environmental Comoraints, Notifications of Summons and Successful Prosecutions

		out the sensions	
		daliteatassa	Sagassan
This reporting period	1	0	0
From commencement date of construction to end of reporting month	1	0	0

## Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)



Thromatives Republicating 2015

# Appendix I Environmental Site Inspection Schedule

Environmental Site Inspection Schedule for July 2015

Jul-15						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			Public Holiday	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16 Weekly Audit	17	18
19	20	21	22	23 Weekiy Audit	24	25
26	27	28	29	30 Weekly Audit	31	

Tentative Environmental Site Inspection Schedule for August 2015

Aug-15						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
2	3	4	5 Weekly Audit	6	7	
9	10	11	12	13 Weekly Audit	14	1
16	17	18	19	20 Weekly Audit	21	2
23	24	25	26	27 Weekly Audit	28	2
30	31					

### Contract No. HY/2013/04 HZMB HKBCF - Infrastructure Works Stage II (Southern Portion)



#### Responses to Further Comments on Monthly EM&A Report (July 2015)

No.	Item Reference	Comments Received	Responses
	ENPO (Ray Yan) by er	nail dated 14 August 2015	
	Further Comments		
1.	ES (Environmental Monitoring and Audit Progress)	Please include the dates of site inspections in this section.	Noted and revised accordingly.
2.	ES (Breaches of Action and Limit Levels), Sections 2.3, 4.5 and 6.1	For exceedance done by others (i.e. AMS6 exceedance noted in HKLR), please note that there is no need to include results or exceedance in the text unless the case is referred to this contract for investigation. Please revise the relevant sections to make reference directly to other EM&A report.	Noted and revised accordingly.
3.	Appendix G	Please revise the last column of the table to include for monthly update of implantation status applicable to your contract.	Noted and revised.