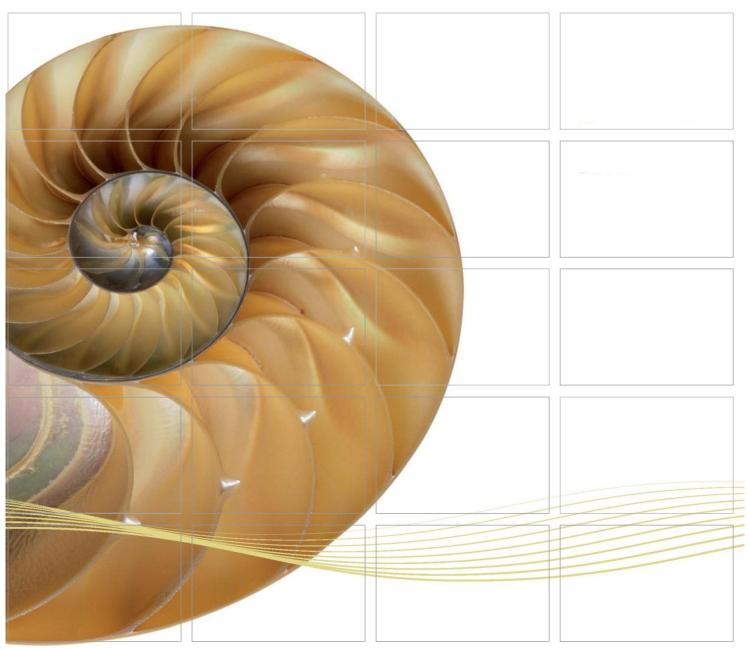
REPORT



Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Seventh Quarterly EM&A Report

27 April 2020

Environmental Resources Management 2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone 2271 3000 Facsimile 2723 5660



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Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Environmental Resources Management

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

Seventh Quarterly EM&A Report

Document Code: 0463091_7th Quarterly EM&A_20200427.doc

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Summary:		Date:				
-		27 April	2020			
		Approved	by:			
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		Dr Jasn	nine Ng			
		ET Leade	er			
	Seventh Quarterly Monthly EM&A Report	CW	JN	CAR	27/4/20	
Revision	Description	Ву	Checked	Approved	Date	
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		Distribution Distribution Internal Internal OHSAS 18001 Certificate No. OH Public				
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12 May 2020

By Fax (2783 0155) and By Post

AECOM Asia Company Limited Supervising Officer's Representative Office No. 8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. Desmond Fung

Dear Mr. Fung,

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/2017/10 TM-CLKL – Northern Connection Tunnel Buildings, E&M Works <u>7th Quarterly EM&A Report for December 2019 – February 2020</u>

Reference is made to the Environmental Team's submission of the quarterly EM&A report for December 2019 – February 2020 (ET's ref.: "0463091_7th Quarterly EM&A_20200427.doc" dated 27 April 2020) certified by the ET Leader and provided to us via e-mail on 27 April 2020.

Please be informed that we have no adverse comments on the captioned submission.

Thank you for very much your attention. Please feel free to contact the undersigned or the ENPO Leader, Mr. Y H Hui, should you require further information.

Yours sincerely, For and on behalf of Ramboll Hong Kong Limited

Elean

F. C. Tsang Independent Environmental Checker Tuen Mun-Chek Lap Kok Link

c.c.

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Andy Ho	(By Fax: 3188 6614)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)
Gammon	Mr. Max Poon	(By Fax: 3520 0486)

Internal: DY, YH, RY, ENPO Site

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Ramboll Hong Kong Limited 英環香港有限公司

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- Appendix E Event Action Plan
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EXECUTIVE SUMMARY

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake Northern Connection Tunnel Buildings, Electrical and Mechanical Works of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 7 June 2018 and will tentatively be completed by 2021. The impact monitoring of the EM&A programme, including air quality and environmental site inspections, were commenced on 7 June 2018.

This is the Seventh Quarterly EM&A Report presenting the EM&A works carried out during the period from 1 December 2019 to 29 February 2020 for the *Contract No. HY/2017/10 Northern Connection Tunnel Buildings, Electrical and Mechanical Works* (the "Contract") in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

December 2019

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;

- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Booth;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

January 2020

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

February 2020

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and

• Electrical and Mechanical Works at South Ventilation Building.

A summary of monitoring and audit activities conducted in the reporting period is listed below ⁽¹⁾:

24-hour TSP Monitoring	30 sessions
1-hour TSP Monitoring	30 sessions
Landfill Gas Hazard Monitoring	44 days
Joint Environmental Site Inspection	13 sessions

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Four (4) exceedances of Action Level and one (1) exceedance of Limit Level of 1-hour TSP were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. No exceedance of 24-hour TSP Action and Limit Levels were recorded during the reporting period.

Breaches of Action Level for Landfill Gas Hazard Monitoring

Results of landfill gas hazard monitoring in the reporting period complied with the Action Level.

Environmental Complaints, Non-compliance & Summons

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the coming quarter include the following:

<u>March 2020</u>

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;

ET justification on the Contract Specific Environmental Monitoring and Audit activities under this Contract was submitted to ENPO on 11 September 2018

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

<u>April 2020</u>

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

<u>May 2020</u>

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the coming quarterly period are mainly associated with dust and waste management issues.

1.1 BACKGROUND

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM*). The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B, EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the Northern Connection Tunnel Buildings, Electrical and Mechanical Works of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The construction phase of the Contract commenced on 7 June 2018 and will be tentatively completed by 2021. The impact monitoring phase of the EM&A programme, including air quality and environmental site inspections, commenced on 7 June 2018.

The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to c.





TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS CLIENT





CONSULTANT

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SUB-CONSULTANTS 分月工作新闻公司

Figure 1.1

ISSUE/REVISION

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KEY PLAN

MILLIMETRES

PROJECT NO.

CONTRACT NO.

SHEET TITLE

60240249

HY/2017/10





TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT



CONSULTANT

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Figure 1.2a

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SCALE

DIMENSION UNIT

MILLIMETRES

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KEY PLAN

PROJECT NO.

60240249

CONTRACT NO. HY/2017/10

SHEET TITLE

ZONING PLAN (SHEET 1)

SHEET NUMBER

60240249/C4/7061A





TUEN MUN -

CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

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Figure 1.2b

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KEY PLAN

PROJECT NO.

60240249

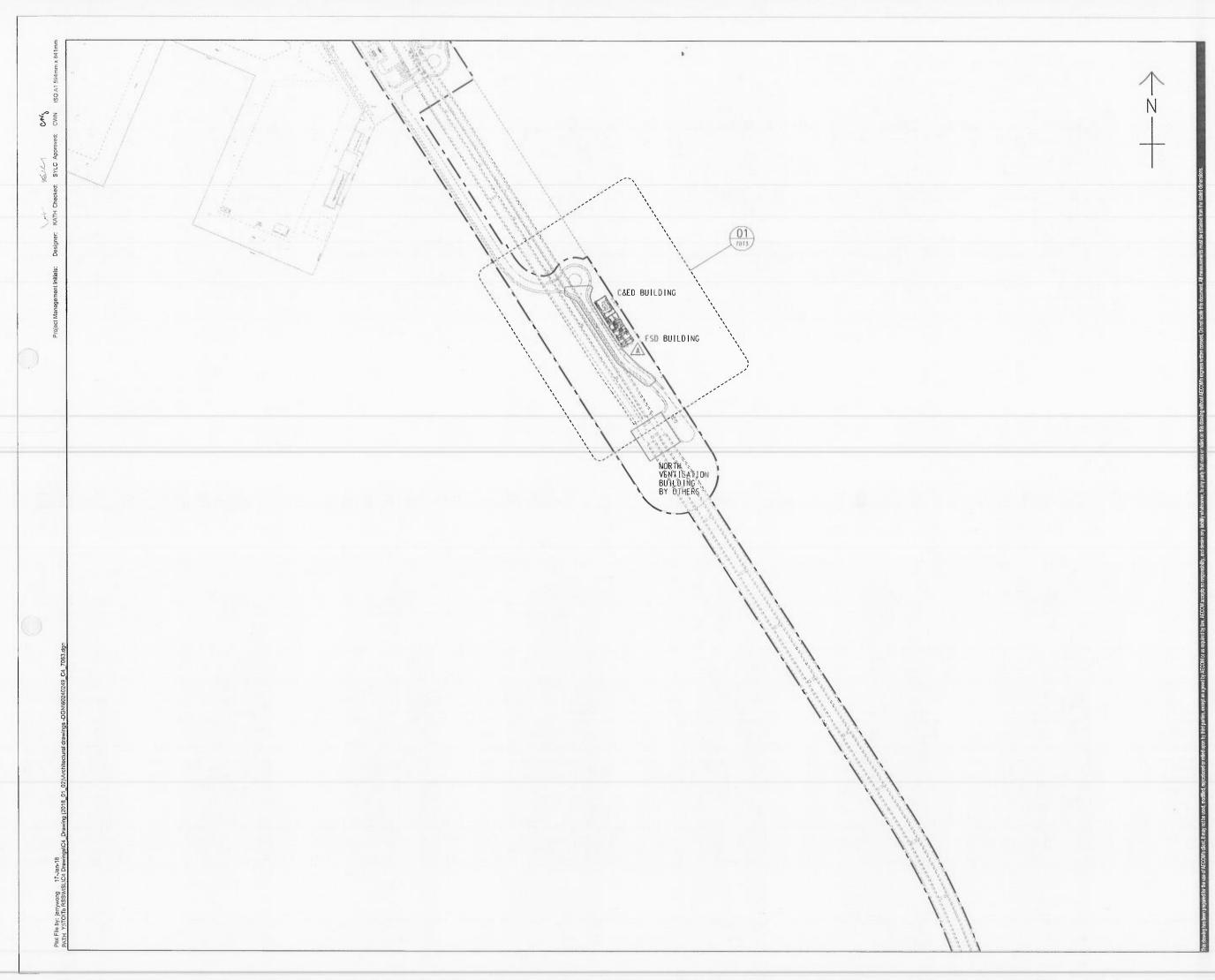
CONTRACT NO. HY/2017/10

SHEET TITLE

ZONING PLAN (SHEET 2)

SHEET NUMBER

60240249/C4/7062A





TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT



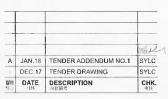
CONSULTANT

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SUB-CONSULTANTS

Figure 1.2c

ISSUE/REVISION



STATUS

DIMENSION UNIT

MILLIMETRES

A1 1:2500

KEY PLAN

PROJECT NO. 60240249

CONTRACT NO. HY/2017/10

SHEET TITLE

ZONING PLAN (SHEET 3)

SHEET NUMBER

60240249/C4/7063A

1.2 SCOPE OF REPORT

This is the Seventh Quarterly EM&A Report under the *Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works.* This report presents a summary of the environmental monitoring and audit works from 1 December 2019 to 29 February 2020.

1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

Party	Position	Name	Telephone	Fax
HyD (Highways	Project Coordinator	Joseph Lee	2762 4958	3188 6614
Department)	Senior Engineer	Cheng Pan	2762 3383	3188 6614
ER (AECOM Asia Company Limited)	Principle Resident Engineer	S. W. Fok	2293 6200	2293 6300
	Resident Engineer	Desmond Fung	2293 6200	2293 6300
ENPO / IEC	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
(Ramboll Hong Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Gammon	Site Agent	Kenneth Tai	9039 4723	-
Construction Limited)	Environmental Officer	Max Poon	9103 6303	-
ET (ERM-HK)	ET Leader	Dr. Jasmine Ng	2271 3311	2723 5660

Table 1.1Contact Information of Key Personnel

1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 7 June 2018. The rolling construction programme for the period of December 2019 to February 2020 is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

December 2019

Land-based Works

• Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building;

- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Booth;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

January 2020

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

February 2020

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;

- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Contract are shown in *Figure 1.4*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

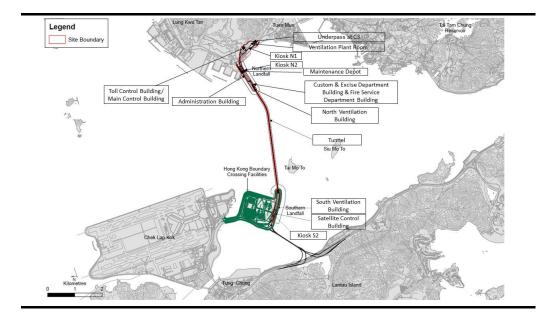


Figure 1.3 Locations of Major Construction Activities in the Reporting Period

2 EM&A RESULTS

The EM&A programme required environmental monitoring for air quality and environmental site inspections for air quality, water quality and waste management. The EM&A requirements and related findings for each component are summarized in the following sections

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft under *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* commenced on 24 October 2014.

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* ⁽¹⁾.

The Action and Limit Levels of the air quality monitoring were adopted from the published EM&A reports of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* ⁽²⁾. The Action and Limit Levels are provided in *Appendix D*.

The locations of the monitoring stations overlapped with Contract No. HY/2012/08 are shown in *Figure 2.1* and presented in *Table 2.1*.

Published EM&A data for impact air quality monitoring by Contract No. HY/2012/08 are available at: http://www.hzmbenpo.com/

⁽²⁾ Published EM&A reports of Contract No. HY/2012/08 are available at: http://www.hzmbenpo.com/

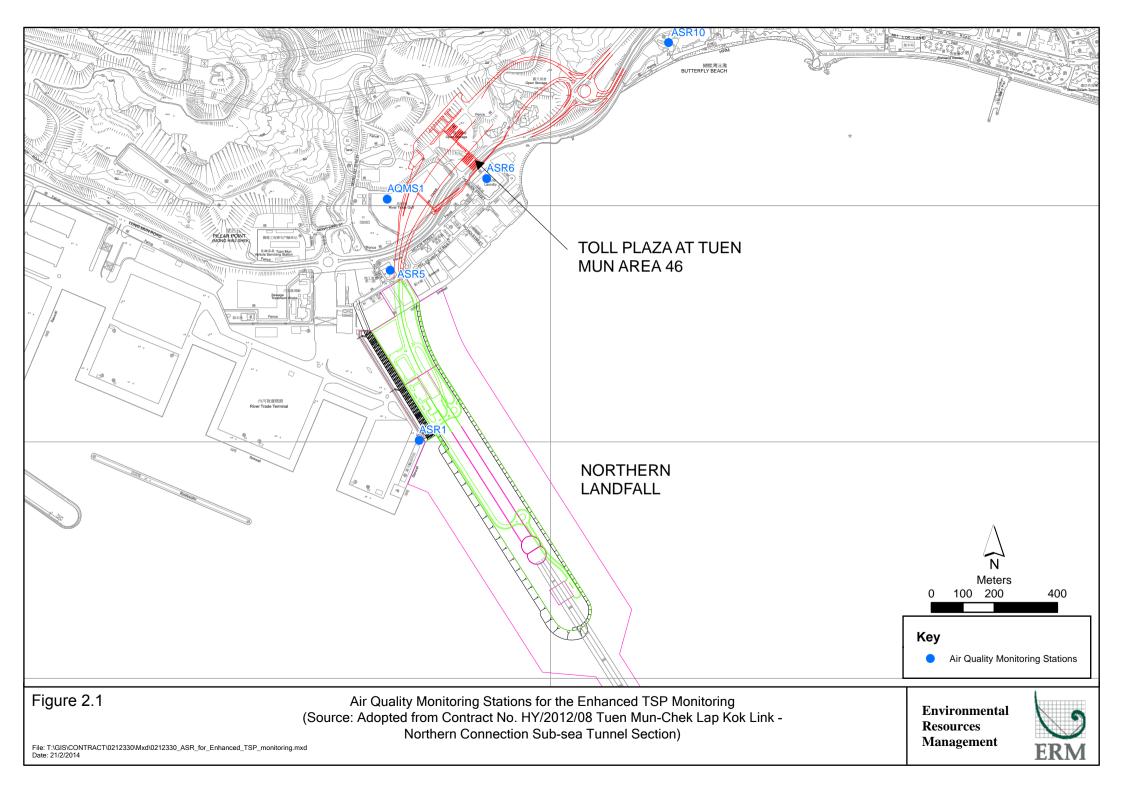


Table 2.1Locations of Impact Air Quality Monitoring Stations and its Corresponding
Monitoring Requirements

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	1, 4, 7, 10, 13, 16, 19,	Tuen Mun	Office	TSP monitoring
	22, 25, 28 and 31	Fireboat Station		1-hour Total Suspended
	December 2019			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	μ g/m ³), 3 times in every 6 days
	3, 6, 9, 12, 15, 18, 21,	Station		• 24-hour Total Suspended
	24 and 30 January			Particulates (24-hour TSP,
AQMS1	2020	Previous River	Bare ground	μ g/m ³), daily for 24-hour in
		Trade Golf	Ū.	every 6 days
	2, 5, 8, 11, 14, 17, 20,			Enhanced TSP monitoring
ASR6	23, 26 and 29	Butterfly Beach	Office	(commenced on 24 October 2014
	February 2020	Laundry		under Contract No. HY/2012/08)
				• 1-hour Total Suspended
ASR10		Butterfly Beach	Recreational	Particulates (1-hour TSP,
		Park	uses	μ g/m ³), 3 times in every 3 days
				• 24-hour Total Suspended
				Particulates (24-hour TSP,
				μ g/m ³), daily for 24-hour in
				every 3 days

2.1.2 Results and Observations

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* ⁽¹⁾.

Four (4) exceedances of Action Level and one (1) exceedance of Limit Level of 1-hour TSP were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. The exceedances were considered not related to this Contract upon further investigation and the investigation report is presented in *Appendix I*. No action is required to be undertaken in accordance with the Event Action Plan as presented in *Appendix E*.

2.2 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Thirteen (13) site inspections were carried out in the reporting period on 6, 13, 20 and 27 December 2019, 3, 10, 17, 24 and 31 January 2020 and 6, 14, 21 and 28 February 2020.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.2*.

 Published EM&A data for impact air quality monitoring by Contract No. HY/2012/08 are available at: http://www.hzmbenpo.com/
 ENVIRONMENTAL RESOURCES MANAGEMENT

Inspection Date	Observations	Recommendations/ Remarks
6 December 2019	 Satellite Control Building Chemicals were observed not placed in drip tray. Damaged drip tray should be replaced. 	 Satellite Control Building The Contractor was reminded to place chemicals in drip tray. The Contractor was reminded to replace the damaged drip tray.
13 December 2019	 Fire Services Department Building Chemical containers were observed not placed in drip tray. Customs and Excise Department Building Dusty materials should be properly covered. 	 Fire Services Department Building The Contractor was reminded to place chemical containers in drip tray. Customs and Excise Department Building The Contractor was reminded to cover the dusty materials with tarpaulin sheet.
20 December 2019	 Customs and Excise Department Building Cement bags should be covered properly with tarpaulin sheet. Chemical containers were observed not locked. 	 Customs and Excise Department Building The Contractor was reminded to cover properly the cement bags. The Contractor was reminded to place chemical containers in drip tray.
27 December 2019	 Satellite Control Building Better housekeeping should be maintained. Chemical containers were observed not placed in drip tray. South Ventilation Building Accumulated general refuse should be cleared. 	 Satellite Control Building The Contractor was reminded to maintain better housekeeping and regularly cleanup general refuse. The Contractor was reminded to place chemical containers in drip tray. South Ventilation Building The Contractor was reminded to clear accumulated general refuse.
3 January 2020	 Satellite Control Building Chemical containers were observed not placed in drip tray. Housekeeping should be maintained. South Ventilation Building Oil drum on forklift should be removed. 	 Satellite Control Building The Contractor was reminded to place chemical containers in drip tray. The Contractor was reminded to maintain better housekeeping. South Ventilation Building The Contractor was reminded to remove the oil drum.
10 January 2020	TunnelAccumulated general refuse should be removed.	 Tunnel The Contractor was reminded to regularly cleanup general refuse.
17 January 2020	North Ventilation Building Nil 	North Ventilation Building Nil
24 January 2020	South Ventilation BuildingDrip tray for pipe threading machine was observed damaged.	South Ventilation BuildingThe Contractor was reminded to provide a proper drip tray.
31 January 2020	TunnelAccumulated general refuse should be removed.	TunnelThe Contractor was reminded to maintain better housekeeping.
6 February 2020	 Tunnel Chemicals was observed on the hard paved surface. General refuse was found accumulated. 	 Tunnel The Contractor was reminded to remove chemical stain. The Contractor was reminded to keep good housekeeping.

Table 2.2Specific Observations and Recommendations during the Weekly SiteInspection in this Reporting Period

Inspection Date	Observations	Recommendations/ Remarks
14 February 2020	 Fire Services Department Building Accumulated general refuse should be removed. Pipe threading machine should be placed in drip tray. Chemical container should be placd in drip tray. Customs and Excise Department Building Retained water in the drip tray was observed. Accumulated general refuse were observed. 	 Fire Services Department Building The Contractor was reminded to clear general refuse. The Contractor was reminded to place pipe threading machine in drip tray. The Contractor was reminded to place chemical container in drip tray. Customs and Excise Department Building The Contractor was reminded to clear retained water. The Contractor was reminded to clear refuse.
21 February 2020	 Satellite Control Building Chemical container should be placed in drip tray. Tunnel Better housekeeping should be maintained. 	 Satellite Control Building The Contractor was reminded to place the chemical container in drip tray. Tunnel The Contractor was reminded to keep better housekeeping.
28 February 2020	 Ventilation Shaft Accumulated general refuse should be removed. Pipe threading machine should be placed in drip tray. 	 Ventilation Shaft The Contractor was reminded to maintain better housekeeping. The Contractor was reminded to place pipe threading machine in drip tray.

The Contractor has rectified all of the observations as identified during environmental site inspections in the reporting period.

2.3 LANDFILL GAS HAZARD MONITORING

In accordance with the Updated EM&A Manual of the TM-CLK Link Project, landfill gas hazard monitoring should be performed to ensure that the works area at Pillar Point Valley (PPV) Landfill is free of landfill gas during any excavations works. A total of 44 days of landfill gas hazard monitoring was conducted at Toll Control Building/Main Control Building in the reporting period (*Appendix F*).

No landfill gas monitoring was scheduled since 25 January 2020 as no excavation work at Toll Control Building/Main Control Building was undertaken since 25 January 2020.

The Action Level of the landfill gas hazard monitoring were adopted from the Updated EM&A Manual of the TM-CLK Link Project and are provided in *Appendix D*.

2.3.1 Results and Observations

Results for landfill gas hazard monitoring are summarized in *Table 2.3* and the monitoring data is provided in *Appendix G*.

Results of methane, oxygen and carbon dioxide in the reporting period complied with the Action Level. No action as stated in the Updated EM&A Manual of the TM-CLK Link Project and presented in *Appendix D* is required to be undertaken.

Table 2.3Summary of Landfill Gas Hazard Monitoring Results in the Reporting Period

		Average (%)	Range (%)	Action Level (%) (a)
December	Methane	0	0	10/20
2019	Oxygen	20.8	20.8-20.9	19/18
	Carbon Dioxide	0.03	0.03-0.04	0.5/1.5
January	Methane	0	0	10/20
2020 (b)	Oxygen	20.8	20.8-20.9	19/18
	Carbon Dioxide	0.03	0.03-0.04	0.5/1.5

Notes:

(a) Depending on the results of the measurements, actions required will vary. Actions in the event of landfill gas being detected in excavation/confined area was adopted from the Updated EM&A Manual of the TM-CLK Link Project

(b) No landfill gas monitoring was scheduled since 25 January 2020 as no excavation work at Toll Control Building/Main Control Building was undertaken since 25 January 2020

2.4 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow table prepared by the Contractor (*Appendix H*). The quantities of different types of wastes are summarized in *Table 2.4*.

Table 2.4Quantities of Different Waste Generated in the Reporting Period

Month/Year	Inert C&D Materials ^(a) (m ³)	Inert Construction Waste Re- used (m ³)	Non-inert Construction Waste ^(b) (kg)	Imported Fill (m ³)	Recyclable Materials ^(c) (kg)	Chemical Wastes (kg)
December 2019	489	0	276,850	0	0	0
January 2020	10	0	187,500	0	70	0
February 2020	47	0	176,100	0	84	0

Notes:

(a) Inert construction wastes include hard rock and large broken concrete disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat chemical waste properly and store the containers temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

2.5 Environmental Licenses and Permits

The status of environmental licensing and permit is summarized in *Table 2.5* below.

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
APCO Construction Dust	433493	14 May 2018	N/A	GCL	For Tuen Mun working area
Notification					-
Construction Waste Billing	7030836	15 May 2018	N/A	GCL	N/A
Account		-			
Chemical Waste Producer	5213-422-G2827-01	13 June 2018	N/A	GCL	N/A
Registration					
Discharge License under	WT00031783-2018	22 October 2018	31 October 2023	GCL	Sampling Frequency: Bimonthly
WPCO for Buildings at C2					
area					
Discharge License under	WT00032062-2018	30 October 2018	31 October 2023	GCL	Sampling Frequency: Quarterly
WPCO for Buildings at C3					
area					
Construction Noise Permit	GW-RW0524-19	3 November 2019	29 April 2020	GCL	For Toll Control Building/Main Control
					Building, Administration Building,
					Maintenance Depot, FSD, C&ED, Boundary
					Wall, Tunnel, Approach ramp, NVB and
					WA18
Construction Noise Permit	GW-RW0054-20	11 February 2020	11 August 2020	GCL	For Toll Control Building/Main Control
					Building, Administration Building,
					Maintenance Depot, FSD, C&ED, Boundary
					Wall, Tunnel, Approach ramp, NVB and
					WA18
Construction Noise Permit	GW-RS0778-19	30 August 2019	28 Februry 2020	GCL	For Kiosk S2 and SCB
Construction Noise Permit	GW-RS1130-19	19 December 2019	18 June 2020	GCL	For Kiosk S2 and SCB
Construction Noise Permit	GW-RS0448-19	25 September 2019	14 December 2019	GCL	For Deck Void Lighting Installation
Construction Noise Permit	GW-RS0039-20	23 January 2020	22 July 2020	GCL	For HKBCF Area

Table 2.5Summary of Environmental Licensing and Permit Status

2.6 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

2.7 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Four (4) exceedances of Action Level and one (1) exceedance of Limit Level of 1-hour TSP were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. The exceedances were considered not related to this Contract upon further investigation and the investigation report is presented in *Appendix I*. No action is required to be undertaken in accordance with the Event Action Plan as presented in *Appendix E*.

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

Results of landfill gas hazard monitoring in the reporting period complied with the Action Level.

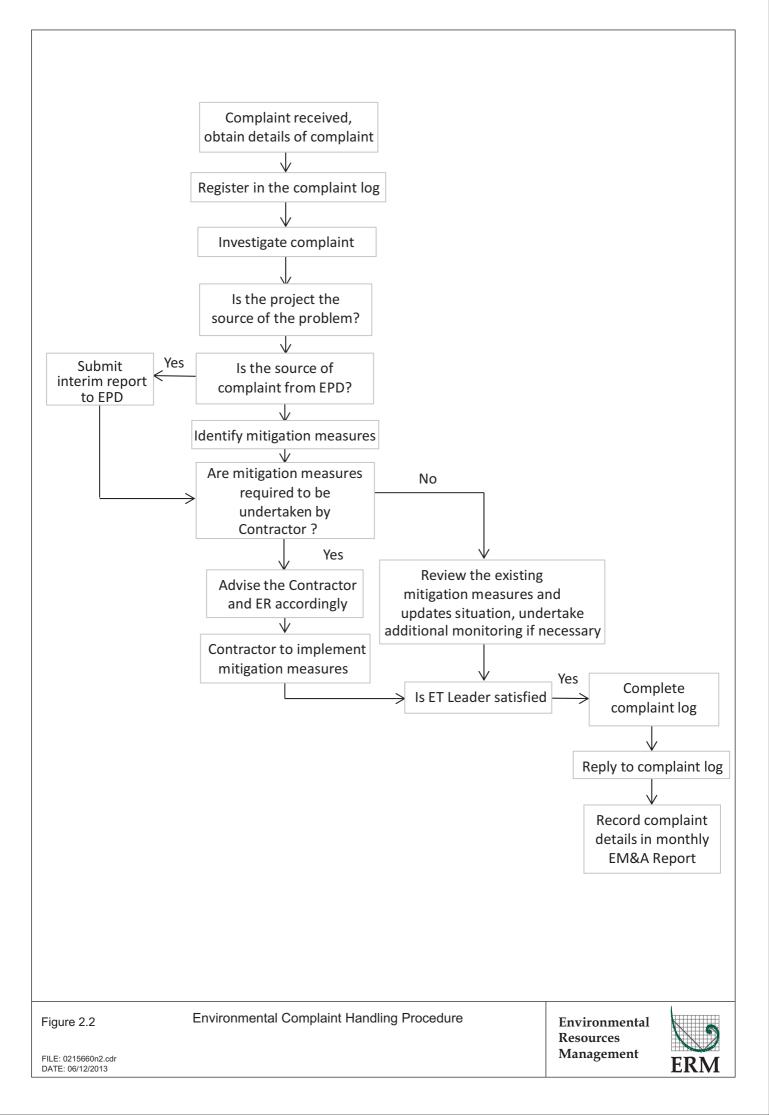
Cumulative statistics are provided in Appendix I.

2.8 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in *Figure 2.2*.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Statistics on complaints, notifications of summons, successful prosecutions are summarized in *Appendix I*.



3 FUTURE KEY ISSUES

3.1 CONSTRUCTION ACTIVITIES FOR THE COMING QUARTER

As informed by the Contractor, the major works for the Contract in the coming quarter are summarized below:

March 2020

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

<u>April 2020</u>

Land-based Works

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

<u>May 2020</u>

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

3.2 KEY ISSUES FOR THE COMING QUARTER

Potential environmental impacts arising from the above upcoming construction activities are mainly associated with dust and waste management issues.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Seventh Quarterly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 December 2019 to 29 February 2020, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality monitoring (including 1-hour TSP and 24-hour TSP) was carried out in this reporting period.

Four (4) exceedances of Action Level and one (1) exceedance of Limit Level of 1-hour TSP were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period. The exceedances were considered not related to this Contract upon further investigation and the investigation report is presented in *Appendix I*. No action is required to be undertaken in accordance with the Event Action Plan as presented in *Appendix E*.

No exceedance of Action and Limit Levels for 24-hour TSP was recorded in the reporting month.

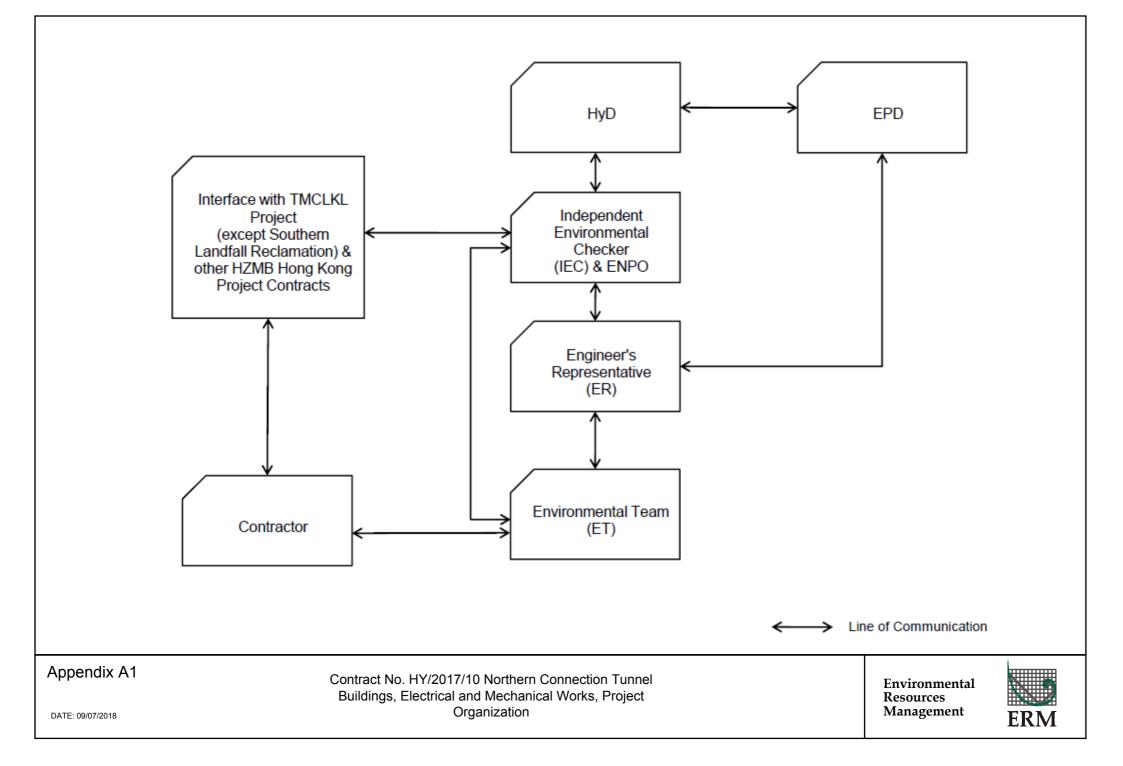
Results of landfill gas hazard monitoring in the reporting period complied with the Action Level.

Environmental site inspection was carried out thirteen (13) times in the reporting period. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures. Appendix A

Project Organization for Environmental Works



Appendix B

Construction Programme

	Activity	Duration	Duration % Start	Finish
		(Days)	Complete	
Works Program	me Three Month Rolling Programme 20-Dec-19			
ates				
Dates				
KD03	KD03 - Satellite Control Bldg & TCSS Provision	0	0%	
KD05	KD05 - E&M for Toll Area,N1,Underpass,Plant Rm,Footbridges/Roads	0	0%	
KD06	KD06 - E&M for Admin Bldg, Depot, Training Ground, N Vent Bldg, N2	0	100%	
KD06A	KD6A - E&M for Approach Roads and At-Grade Rd at North Side	0	0%	
KD06B	KD6B - E&M for South Vent Duct, Tunnel, Approach Roads	0	0%	
KD06C	KD6C - E&M for South Vent Building	0	0%	
KD07	KD07 - E&M for Satellite Control Bldg and S1 & S2	0	0%	
KD07A	KD7A - E&M for Approach Roads and At-Grade Rd at South Side	0	0%	
tion Access Dates				
365	Access to Portion IVa (ML03)	0	100% 30-N	
P390 P420	Access to Portion Va Access to Portion II - 8 Jan 2020	0	100% 17-De 0% 08-Ja	-
-420 -430	Access to Portion VId (Day 641)	0	0% 06-Fe	
440	Access to Portion IVb	0	0% 004 0 0% 20-De	
2450	Access to Portion IVc	0	0% 30-Ja	
460	Access to Portion VIc (Day 666 or notified by engineer)	0	0% 02-M	ar-20
70	Access to Portion VIa (Day 678 or notified by engineer)	0	0% 14-M	ar-20
Possession Dates				
25	Possession to Portion XXII (Day 483)	0	0% 20-De	
335	Possession to Portion XXIII (Day 483) Possession to Portion VIb (Day 483)	0	0% 20-D	
P345 P355	Possession to Portion VII Possession to Portion VII	0	0% 20-De	
on Handover Dates		U	070 20-De	
110	Vacate Portion XVIIb (Day 137 after Possession)	0	0%	
Design Submission &				
Control Building				
VIVAC System				
TCB-EMD1095	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	50% 23-Au	g-18 A
TCB-EMD1115	Authorities Review and Comment of MVAC Pump head calculation	56	50% 23-Au	g-18 A
Electrical System	Authorition Devices and Comment of LIDC and Detters Operative	50	500/ 00 A	in 19 A
TCB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50% 22-Au	y-10 A
TCB-EMD1055	Authorities Review and Comment of Generator Calculation	56	50% 15-Au	g-18 A
ire Service System				
TCB-EMD1175	Authorities Review and Comment of FS Pump Head Calculation	56	50% 01-Au	g-18 A
TCB-EMD1195	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50% 14-A	IG-18 A
	· · ·			
TCB-EMD1215	Authorities Review and Comment of FM200 System Design Calculation	56	50% 13-Au	g-18 A
umbing & Drainage Sys	tam			
TCB-EMD1235	Authorities Review and Comment of Pump Head Calculation	56	50% 07-Au	a-18 A
TCB-EMD1235	Authorities Review and Comment of Hot water system capacity calculation		50% 07-A	-
TCB-EMD1395	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50% 23-Ju	-18 A
nistration Building				
VAC System				
ADB-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	50% 17-Au	g-18 A
ADB-EMD1035	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	50% 08-0	t-18 A
ADB-EMD1055	Authorities Review and Comment of Pump head calculation	56	50% 07-N	v-18 A
ADB-EMD1075	Authorities Review and Comment of Mechanical Ventilation Capacity	56	50% 17-Au	
	Calculation			
Electrical System				
				CONTRACT NO. HY
		NOR	THERN TU	NEL CONNECTION
		2		
		Т	HREE MON	THLY PROGRAMM

	Activity	Duration (Days)	Duration % Start Complete	Finish	Total Float	2018 May Jun Ju	L Aug Sep 0	ct Nov Dec	lan Fe	MarlApr	2019		n Oct Nov	Dec Jan Feh	2020 Mar Apr May	Jun Jul A	Aug Se
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ADB-EMD1135	Authorities Review and Comment of Generator Calculation	56	50% 09-Aug-18 A										_				
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ADB-EMD1175	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50% 13-Aug-18 A														
ADB-EMD1195	Authorities Review and Comment of FM200 System Design Calculation	56	50% 13-Aug-18 A														
Plumbing & Drainage Syst																	
ADB-EMD1215	Authorities Review and Comment of Pump Head Calculation	56	50% 25-Aug-18 A														
ADB-EMD1235	Authorities Review and Comment of Pressure Vessel Calculation	56	50% 25-Aug-18 A														
ADB-EMD1255	Authorities Review and Comment of Hot water system capacity calculation	56	50% 25-Aug-18 A														
North Ventilation Building MVAC System																	
NVB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50% 26-Sep-18 A														
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NVB-EMD1055	Authorities Review and Comment of HV Electrical Loading Calculation	56	50% 26-Sep-18 A														
NVB-EMD1075	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50% 17-Aug-18 A														
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NVB-EMD1155	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50% 14-Aug-18 A	_	-												
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NVB-EMD1305	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50% 07-Aug-18 A														
Maintenance Depot																·····	····-
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		Activity	Duration	Duration %	Start	Finish	Total Float 2018	2			201	0				2020		
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	SCB-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	50%	14-Aug-18 A													
	SCB-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	14-Aug-18 A													
	SCB-EMD1155	Authorities Review and Comment of FM200 System Design Calculation	56	50%	14-Aug-18 A	-												
	Plumbing & Drainage Syste	em																
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	CEDB-EMD1075	Authorities Review and Comment of FS Pump Head Calculation	56	50%	21-Dec-18 A													
	CEDB-EMD1095	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	08-Oct-18 A													
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VU-EMD10	25 Authorities Review and Comment of Foam system design calculation	56	50% 09-Aug-18 A			
Plumbing & Dra	sinare System					
VU-EMD10		56	50% 27-Sep-18 A			
Tunnel Lighting						
VU-EMD114		56	50% 29-Aug-18 A			
VU-EMD116	System (TLS) Authorities Review and Comment of Tunnel Lighting Lux Calculation	56	50% 31-Dec-18 A			
VO-EWIDTR		50	30% 31-Dec-10A			
Tunnel						
Fire Service Syst						<u></u> ,,,,,,,,_,_,_,_,_,_
TUN-EMD1	035 Authorities Review and Comment of Foam system design calculation	56	50% 09-Aug-18 A			
TUN-EMD1	Authorities Review and Comment of FS Pump Head Calculation	56	50% 11-Jan-19 A			
			500/ 05 1 40 4			
TUN-EMD1	135 Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50% 25-Jan-19 A			
Plumbing & Dra	sinage System					
TUN-EMD1		56	50% 27-Sep-18 A			
CCMC TCC and E	Pits Calculation					
CCMS, TCS and EL		56	50% 27-Jul-18 A			
	system					
ELV-EMD103	· ·	56	50% 26-Sep-18 A			
ELV-EMD105	5 Authorities Review and Comment of System Design for other ELV system	ns 56	50% 02-Oct-18 A			
Major Material Sub	mission & Approval					
GEN-EMM1020		x 28	50% 31-May-18 A			
	Materials/ Equipment					
GEN-EMM1050	Authorities Review and Comment of Technical Info Miscellaneous 2nd fix Materials/ Equipment	28	50% 20-May-18 A			
GEN-EMM1080		28	50% 02-Jul-18 A	_		
	fix Materials/ Equipment					
MVAC System						
MVAC-EMM1		56	50% 14-Jun-18 A		· · · · · · · · · · · · · · · · · · ·	
MVAC-EMM1	Authorities Review and Comment of Technical Info Chilled Water Pump	56	50% 12-Jun-18 A			
MVAC-EMM1		56	50% 19-Jul-18 A			
	(CRAC) Unit					
MVAC-EMM1 MVAC-EMM1		56 56	50% 10-Sep-18 A 50% 17-Jul-18 A	_		
IVIVAC-EIVIIVIT	Pressurization Fan	00	50% 17-Jul-18 A			
Electrical System						
ELE-EMM107	5 Authorities Review and Comment of Technical Info HV Cables	56	50% 17-Sep-18 A			
ELE-EMM115	5 Authorities Review and Comment of Technical Info UPS and Battery	28	50% 26-Nov-18 A			
ELE-EMM117	5 Authorities Review and Comment of Technical Info MCB & MCCB &	28	50% 04-Dec-18 A	_		
	Distribution Board	20	0070 04 200 1077			
ELE-EMM122	5 Authorities Review and Comment of Technical Info PV System	56	50% 05-Mar-19 A			
Fire Service System						<u></u> ,,,,,,,,
FS-EMM1015		56	50% 20-Aug-18 A	_		
FS-EMM1095	Authorities Review and Comment of Technical Info FR/ HR system	56	50% 24-Sep-18 A			
FS-EMM1115	Authorities Review and Comment of Technical Info Gas detection	56	50% 05-Dec-18 A			
Plumbing & Drain		FC	E00/ 25 Oct 19 A			
PD-EMM1015	Authorities Review and Comment of Technical Info Sump Pump	56	50% 25-Oct-18 A			
PD-EMM1035	Authorities Review and Comment of Technical Info Hot Water System	56	50% 11-Nov-18 A			
		50	500/ 40 los 40 A			
PD-EMM1055		56	50% 16-Jan-19 A			
Tunnel Ventilation TVS-EMM103	•	56	50% 19-Jul-18 A			
		50	5070 15-500-10 A			
TVS-EMM110	5 Authorities Review and Comment of Technical Info AQMS Equipment	56	50% 29-Oct-18 A			
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TVS-EMM1155	Authorities Review and Comment of Technical Info MFSD	56	50% 26-Jul-18 A	_									
Tunnel and Road Lighting Syst		50	50% 00 Oct 40 A	-									
TRLS-EMM1035	Authorities Review and Comment of Technical Info Road Lighting Fitting	56	50% 09-Oct-18 A										
CCMS, TCS and ELV System													
ELV-EMM1020	Authorities Review and Comment of Technical Info CMCS Equipment	56	50% 09-Oct-18 A	-									
ELV-EMM1050	Authorities Review and Comment of Technical Info TCS Equipment	56	50% 09-Oct-18 A	-			·····	· · · · · · · · · · · · · · · · · · ·	· · · ·				
ELV-EMM1080	Authorities Review and Comment of Technical Info other ELV Equipment	56	50% 15-Oct-18 A										
Drawing Submission & Appro													
Satellite Control Building													
Individual Shop Drawing													
SCB-ISD1040	Authorities Review and Comment of SCB ISD 1st batch	28	50% 10-Aug-18 A	_									
SCB-ISD1090	Authorities Review and Comment of SCB ISD 2nd batch	28	50% 10-Aug-18 A										
Costom & Excise Department	Building												
Individual Shop Drawing			500/ 00 0 /0 /										
CEDB-ISD1040	Authorities Review and Comment of C&EDB ISD 1st batch	28	50% 06-Sep-18 A										
CEDB-ISD1090	Authorities Review and Comment of C&EDB ISD 2nd batch	28	50% 06-Sep-18 A	I									
Tunnel													
Individual Shop Drawing			500/ 10 1 15 1										
TUN-ISD1090	Authorities Review and Comment of Tunnel ISD 2nd batch	28	50% 16-Aug-18 A	_ I									
TUN-ISD1140	Authorities Review and Comment of Tunnel ISD 3rd batch	28	50% 14-Aug-19 A										
TUN-ISD1170	Preparation and Resubmission of Tunnel ISD 4th batch	30	90% 03-Sep-19 A	_ I									
TUN-ISD1180	ER Review and Approval of Tunnel ISD 4th batch	15	0% 24-Dec-19	_									
TUN-ISD1190	Authorities Review and Comment of Tunnel ISD 4th batch	28	50% 31-Oct-18 A	_									
Fire Services Department Buil	ding												
Individual Shop Drawing													
FSDB-ISD1040	Authorities Review and Comment of FSDB ISD 1st batch	28	50% 05-Sep-18 A	_									
FSDB-ISD1090	Authorities Review and Comment of FSDB ISD 2nd batch	28	50% 05-Sep-18 A										
Vehicular Underpass													
Individual Shop Drawing													
VU-ISD1090	Authorities Review and Comment of Vehicular Underpass ISD 2nd batch	28	50% 02-Apr-19 A										
North Ventilation Duilding				-									
North Ventilation Building Individual Shop Drawing													
NVB-ISD1090	Authorities Review and Approval of NVB ISD - 2nd batch	28	50% 27-Sep-18 A										
E&M Manufacture & Delivery	Autionities Neview and Approval of NVB 15D - 2nd batch	20	50% 27-Sep-10A										
Toll Control Building				-									
CCMS, TCS and ELV System		100	1000/ 12 14 10 4										
TCB-MD1210 TCB-MD1212	Manufacture - TCS Equipment	180	100% 12-Jul-19 A 5% 19-Dec-19 A	-									
	FAT - TCS Equipment	14		-									
TCB-MD1215	Shipping to HK - TCS Equipment	14	0% 02-Jan-20										
Electrical System TCB-MD1280	Manufacture & Dalivanuta LIK, DV Oveters Equipment	60	100% 12-Sep-19 A							<u> </u>			
	Manufacture & Delivery to HK - PV System Equipment	60	100% 12-Sep-19 A	I									
Administration Building													
Electrical System	Monufacture & Dolivon to HK DV System For imment	60	100% 12 Son 10 A						_				
ADB-MD1310	Manufacture & Delivery to HK - PV System Equipment	60	100% 12-Sep-19 A	<u> </u>									
Satellite Control Building				-									
Electrical System	Chinning to LW. Conceptor	20	100% 12 Nov 10 A										
SCB-MD1025 SCB-MD1045	Shipping to HK - Generator Shipping to HK - LV Switchboard	28 14	100% 12-Nov-19 A 0% 20-Dec-19										
		14	070 20-Dec-19										
MVAC System	Monufacture & Dolivon to HK, Computer Boom Air Conditioning (ODAC)	100	00% 25 May 40 A										
SCB-MD1010	Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit	120	90% 25-May-19 A										
Fire Service System				ŀ									
SCB-MD1100	Manufacture & Delivery to HK - FM200	150	100% 20-May-19 A	- I									
SCB-MD1110	Manufacture & Delivery to HK - FS Pump	120	90% 20-May-19 A										
SCB-MD1130	Manufacture & Delivery to HK - LMCP (FS)	60	78.33% 02-Sep-19 A	-									
Plumbing & Drainage Syste													
SCB-PO1120	Manufacture & Delivery to HK - LMCP (PD)	60	100% 02-Sep-19 A								•		
	· · · · · · · · · · · · · · · · · · ·		•	.CT NO. HY2017/10					P 5	Date	Revision	Checked	Approved
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D	Activity	Duration	Duration % Start	Finish	Total											
		(Days)	Complete		Float	2018						2019			2020	
COMC and ENVIO					M	ay Jun Ju	I Aug Sep	Oct Nov	Dec Jan	Feb Mar	Apr May	Jun Jul Au	Sep Oct N	ov Dec Jan Fe	b Mar Apr May .	lun Jul Aug Sep
CCMS and ELV System SCB-MD1155	Shipping to HK - CMCS Equipment	14	100% 30-Oct-19 A													
SCB-MD1155 SCB-MD1160	Manufacture & Delivery to HK - other ELV Equipment	83	93.98% 27-Jun-19 A													
Costom & Excise Department		03	33.30 /0 Z1-JUII-19 A	_												
Electrical System	Building															
CEDB-MD1025	Shipping to HK - Generator	28	100% 11-Nov-19 A													
CEDB-MD1025	Shipping to HK - UPS and Battery	42	35% 21-Aug-19 A													
CEDB-MD1035 CEDB-MD1045	Shipping to HK - LV Switchboard	14	0% 09-Nov-19 A													
CEDB-MD1043	Manufacture & Delivery to HK - LV Cables	120	100% 20-Nov-18 A													
CEDB-MD1050	Manufacture & Delivery to HK - LV Cables Manufacture & Delivery to HK - MCB & MCCB and Distribution Board	38	81.58% 20-Jun-19 A	_												
CEDD-IVID 1000	Manufacture & Delivery to FIX - MCB & MCCB and Distribution Board	50	01.30% 20-301-19 A													
MVAC System																
CEDB-MD1010	Manufacture & Delivery to HK - AHU & PAU	60	28.33% 20-Jul-19 A													
Fire Service System																
CEDB-MD1090	Manufacture & Delivery to HK - FM200	120	65% 20-Jul-19 A													
CEDB-MD1120	Manufacture & Delivery to HK - LMCP (FS)	51	49.02% 20-Jun-19 A													
Plumbing & Drainage Syste	· · ·															
CEDB-MD1080	Manufacture & Delivery to HK - Water Pump	90	71.11% 29-Mar-19 A							-						
CCMS and ELV System																
CEDB-MD1175	Shipping to HK - CMCS Equipment	14	50% 30-Oct-19 A													
CEDB-MD1180	Manufacture & Delivery to HK - other ELV Equipment	83	93.98% 21-Sep-19 A		···											
Lift System																
CEDB-MD1000	Manufacture & Delivery to HK - Lift System	124	88.71% 20-Jul-19 A													
Fire Services Department Buil																
Electrical System																
FSDB-MD1005	Shipping to HK - Generator	28	100% 12-Nov-19 A										•			
FSDB-MD1015	Shipping to HK - UPS and Battery	42	57.14% 21-Nov-19 A													
FSDB-MD1020	Manufacture - LV Switchboard	86	100% 17-Apr-19 A													
FSDB-MD1022	FAT - LV Switchboard	10	100% 09-Dec-19 A											1		
FSDB-MD1025	Shipping to HK - LV Switchboard	14	50% 10-Dec-19 A													
FSDB-MD1030	Manufacture & Delivery to HK - LV Cables	120	100% 20-Nov-18 A					-								
FSDB-MD1040	Manufacture & Delivery to HK - MCB & MCCB and Distribution Board	60	100% 02-Sep-19 A													
Fire Service System																
FSDB-MD1185	Manufacture & Delivery to HK - FM200	150	90% 20-Jun-19 A													
Plumbing & Drainage Syste																
FSDB-MD1060	Manufacture & Delivery to HK - Water Pump	90	86.67% 29-Jul-19 A													
CCMS and ELV System																
FSDB-MD1135	Shipping to HK - CMCS Equipment	14	50% 31-Oct-19 A													
FSDB-MD1140	Manufacture & Delivery to HK - other ELV Equipment	83	93.98% 21-Sep-19 A													
South Ventilation Building																
Electrical System		44														
SVB-MD1035	Shipping to HK - LV Switchboard	14	100% 30-Oct-19 A													
SVB-MD1042	FAT - HV Switchboard	14	100% 04-Dec-19 A											•		
SVB-MD1045	Shipping to HK - HV Switchboard	14	50% 07-Dec-19 A													
MVAC System	Chinaing to LUZ. Tunned Vartilation For	15	04 440/ 00 0-1 40 4													
SVB-MD1175	Shipping to HK - Tunnel Ventilation Fan	45	91.11% 20-Oct-19 A													
Fire Service System	Manufacture & Delivery to HK - FS Pump	100	100% 10 Mar 10 A							_						
SVB-MD1130		120	100% 19-Mar-19 A													
CCMS and ELV System SVB-MD1205	Shipping to HK - CMCS Equipment	14	50% 30-Oct-19 A													
SVB-MD1205 SVB-MD1210	Shipping to HK - CMCS Equipment Manufacture & Delivery to HK - other ELV Equipment	83	95% 18-Jun-19 A													
		ნპ	90% TO-JUII-19 A	_												
Vehicular Underpass VU-MD1065	Shipping to HK - CMCS Equipment	21	95.24% 13-Nov-19 A													
VU-MD1065	Manufacture & Delivery to HK - other ELV Equipment	90	100% 18-Jun-19 A	_												
Tunnel		30														
TUN-MD1045	Shipping to HK - CMCS Equipment	7	100% 13-Nov-19 A		···											
TUN-MD1060	Manufacture & Delivery to HK - Sump Pump	109	83.49% 11-Oct-19 A													
TUN-MD1000	Shipping to HK - AQMS Equipment	7	50% 26-Sep-19 A													
Approach Road		1	20 00p-10 A													
AR-MD1000	Manufacture & Delivery to HK - Road Lighting Fitting	90	92.22% 21-Mar-19 A								_					
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	Activity	Duration (Days)	Duration % Complete	Start
AR-MD1020	Manufacture & Delivery to HK - other ELV Equipment	(Days) 83		18-Jun-19 A
Key Date 1 - Toll Control Build		03	00.73%	io-oull-19 A
ABWF Works (for All)				
ATCB1010	Door and Window Frames	82		04-Mar-19 A
ATCB1120	External Cladding and Wall Plastering	94		01-Apr-19 A
ATCB1130	ABWF second fix & final fix uilding, Maintenance Depot, Kiosk N2, TCSS Provision	90	50%	27-Aug-19 A
Administration Building (ADB				
ABWF Works (for All)				
AADB1140	Door and Window Frames	19	99%	25-Sep-19 A
AADB1151	ABWF Works to Plant Rooms 1/F	52	80%	22-Jul-19 A
AADB1160	ABWF Works to Office and Corridors G/F	126		25-Jul-19 A
AADB1161	ABWF Works to Office and Corridors 1/F	126		25-Jul-19 A
AADB1170	ABWF Works to Toilets G/F	132		27-Jul-19 A
AADB1171	ABWF Works to Toilets 1/F	132		30-Jul-19 A
AADB1190	External Cladding and Wall Plastering	69 90		27-Sep-19 A
AADB1200 Maintenance Depot	ABWF second fix & final fix	90	35%	02-Oct-19 A
ABWF Works (for All)				
AMD1010	Door and Window Frames	10	100%	27-Sep-19 A
AMD1020	ABWF Works to Plant Rooms	58		23-Jul-19 A
AMD1030	ABWF Works to Office and Corridors	132		27-Jul-19 A
AMD1040	ABWF Works to Toilets	144		31-Jul-19 A
AMD1070	ABWF second fix & final fix	80	80%	30-Sep-19 A
y Date 6 - E&M Works for A	dministration Building, Maintenance Depot, North Vent Building, Kiosk N	2		
& M Works for Administration	n Building			
Installation				
G/F ADB-EMGF1030	E&M Installation - Final fix - G/F	40	100%	19-Sep-19 A
		40	100 /0	
ADB-EMGF1190	Sub-circuit Power On - LV Switch Room - G/F	0	100%	
	ERM Installation Constate Room & Fuel Tark Dears O/F	70	000/	21 Aug 10 A
ADB-EMGF1210	E&M Installation - Generator Room & Fuel Tank Room - G/F	70	98%	21-Aug-19 A
ADB-EMGF1240	E&M Installation - MVAC Plant Rooms - G/F	76	98%	21-Aug-19 A
				-
ADB-EMGF1280	E&M Installation - PD Plant Rooms - G/F	50	85%	05-Sep-19 A
ADB-EMGF1300	E&M Installation - ELV Plant Rooms - G/F	50	85%	12-Sep-19 A
			5070	
1/F				
ADB-EM1F1030	E&M Installation - Final fix - 1/F	40	100%	19-Sep-19 A
ADB-EM1F1060	E&M Installation - MVAC Plant Rooms - 1/F	64	100%	05-Sep-19 A
ADB-EM1F1080	E&M Installation - Electical Plant Rooms - 1/F	64	100%	29-Aug-19 A
ADB-EM1F1100	E&M Installation - ELV Plant Rooms - 1/F	52	85%	05-Sep-19 A
	Law Hotaliauon - LLV Flant NUUTIS - 1/1	52	0070	0-00p-13 A
Roof				
ADB-EMRF1010	E&M Installation - 1st fix - Roof	25	100%	19-Sep-19 A
ADB-EMRF1013	E&M Installation - 2nd fix - Roof		100%	23-Sen 10 A
ADD-EIVIKF1013	Eorvi Histaliation - Zhu IIX - Kool	25	100%	23-Sep-19 A
ADB-EMRF1016	E&M Installation - Final fix - Roof	25	75%	14-Nov-19 A
Lift Installation (L01)	Lift 2 lift maching mam installation	00	000/	20 Aug 10 A
ADB-LF1020	Lift & lift machine room installation	80		20-Aug-19 A
ADB-LF1030	Testing & commissioning	12		02-Jan-20
ADB-LF1040 ADB-LF1050	Final adjustment, Submission of Form LE5 & EMSD processing Issuance of lift use permit	18	0% 0%	16-Jan-20
Testing and Commissioning		0	0.10	
ADB-TC1000	T&C for Subcircuit Power On	18	100%	09-Nov-19 A
ADB-TC1020	Equipment Start-up T&C for FSI for FSI	12		31-Oct-19 A
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IVB1110 Leakage test for TVF IVB1450 Damper/Silencer and duct installation IVB1010 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation	Room - G/F oms - G/F s - G/F	(Days) 46 6 30 40 0 90 85 60 30	100% 100% 20% 100% 0% 100% 90%	29-Oct-19 A 13-Dec-19 A 14-Dec-19 A 19-Sep-19 A 05-Sep-19 A 12-Sep-19 A		N	<u>lay Jun</u>		Aug Se	p Oct	Nov De	ec Jan	Feb Ma	lar A
25 Integrated T&C for FSI 30 Non-Essential T&C Vaintenance Depot Vaintenance Depot 3F1030 E&M Installation - Final fix - G/F 3F1070 Sub-Circuit Power On - LV Switch F 3F1140 E&M Installation - MVAC Plant Rooms 3F1180 E&M Installation - PD Plant Rooms 3F1200 E&M Installation - Elv Plant Rooms 3F1200 E&M Installation - Ist fix - R/F RF1010 E&M Installation - Ist fix - R/F RF1020 E&M Installation - Int fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Int fix - R/F RF1030 E&M Installation - Final fix - R/F Individual E&M System T&C for FSI Individual E&M System T&C for FSI Non-Essential T&C Individual E&M System T&C for FSI NB1530 Damper/Silencer and duct installati NB1050 Damper/Silencer and duct installati NB1100 Damper/Silencer and duct installati	Room - G/F oms - G/F s - G/F	6 30 40 0 90 85 60	100% 20% 100% 0% 100% 90%	13-Dec-19 A 14-Dec-19 A 19-Sep-19 A 05-Sep-19 A		-								
30 Non-Essential T&C Jaintenance Depot 37 SF1030 E&M Installation - Final fix - G/F 37 Sub-Circuit Power On - LV Switch F 37 Sub-Circuit Power On - LV Switch F 37 E&M Installation - MVAC Plant Rooms 37 E&M Installation - PD Plant Rooms 37 E&M Installation - Elv Plant Rooms 37 E&M Installation - Stifix - R/F 38 RF1010 E&M Installation - 2nd fix - R/F 38 RF1020 E&M Installation - 2nd fix - R/F 39 E&M Installation - Final fix - R/F 30 Non-Essential T&C 30 Equipment Start-up T&C for FSI 31 Individual E&M System T&C for FSI 32 Individual E&M System T&C for FSI 33 Individual E&M System T&C for FSI 34 Non-Essential T&C 35 Integrated T&C for FSI 36 Non-Essential T&C 37 NB1530 Damper/Silencer and duct installati 37 Individual E&M System T&C for FSI 38 Damper/Silencer and duct installati 39 Damper/Silencer a	oms - G/F s - G/F	30 40 0 90 85 60	20% 100% 0% 100% 90%	14-Dec-19 A 19-Sep-19 A 05-Sep-19 A										÷
Waintenance Depot SF1030 E&M Installation - Final fix - G/F SF1070 Sub-Circuit Power On - LV Switch F SF1140 E&M Installation - MVAC Plant Rooms SF1180 E&M Installation - PD Plant Rooms SF1200 E&M Installation - Elv Plant Rooms SF1200 E&M Installation - St fix - R/F RF1010 E&M Installation - 1st fix - R/F RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Start-up T&C for FSI MO T&C for Subcircuit Power On S5 Integrated T&C for FSI MO Non-Essential T&C MB1530 Damper/Silencer and duct installati MB150 Damper/Silencer and duct installati MB1100 Damper/Silencer and duct installati MB1130 Damper/Silencer and duct installati MB1140 <td>oms - G/F s - G/F</td> <td>40 0 90 85 60</td> <td>100% 0% 100% 90%</td> <td>19-Sep-19 A 05-Sep-19 A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1 1</td> <td></td> <td></td>	oms - G/F s - G/F	40 0 90 85 60	100% 0% 100% 90%	19-Sep-19 A 05-Sep-19 A							1	1 1		
GF1030 E&M Installation - Final fix - G/F GF1070 Sub-Circuit Power On - LV Switch F GF1140 E&M Installation - MVAC Plant Rooms GF1180 E&M Installation - PD Plant Rooms GF1200 E&M Installation - Elv Plant Rooms GF1200 E&M Installation - Stip Plant Rooms GF1200 E&M Installation - Ist fix - R/F RF1010 E&M Installation - 2nd fix - R/F RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Stif fix - R/F RF1030 E&M Installation - Stif fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Stif fix - R/F RF1030 Equipment Start-up T&C for FSI M0 Non-Essential T&C Nort Ventilation Building Start of FSI NB1530 Damper/Silencer and duct installation NB150 Damper/Silencer and duct installation NB1100 Damper/Silencer and duct installation NB1130 Damper/Silencer and duct installation NB1140 Ventilation fan	oms - G/F s - G/F	0 90 85 60	0% 100% 90%	05-Sep-19 A		-				1 1				
GF 1070 Sub-Circuit Power On - LV Switch F GF 1140 E&M Installation - MVAC Plant Rooms GF 1180 E&M Installation - PD Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1010 E&M Installation - Striker R/F RF 1020 E&M Installation - 2nd fix - R/F RF 1030 E&M Installation - Final fix - R/F RF 1030 E&M Installation - Final fix - R/F Individual E&M System T&C for FSI Individual E&M System T&C for FSI Individual E&M System T&C for FSI Non-Essential T&C Non-Essential T&C Non-Essential T&C Non FF4 IVB1530 Damper/Silencer and duct installation IVB1050 Damper/Silencer and duct installation IVB1090 Damper/Silencer and duct installation IVB1101 Leakage test for TVF IVB1130 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage t	oms - G/F s - G/F	0 90 85 60	0% 100% 90%	05-Sep-19 A			8 8 8 8	1						
GF 1070 Sub-Circuit Power On - LV Switch F GF 1140 E&M Installation - MVAC Plant Rooms GF 1180 E&M Installation - PD Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1200 E&M Installation - Elv Plant Rooms GF 1010 E&M Installation - Striker R/F RF 1020 E&M Installation - 2nd fix - R/F RF 1030 E&M Installation - Final fix - R/F RF 1030 E&M Installation - Final fix - R/F Individual E&M System T&C for FSI Individual E&M System T&C for FSI Individual E&M System T&C for FSI Non-Essential T&C Non-Essential T&C Non-Essential T&C Non FF4 IVB1530 Damper/Silencer and duct installation IVB1050 Damper/Silencer and duct installation IVB1090 Damper/Silencer and duct installation IVB1101 Leakage test for TVF IVB1130 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage t	oms - G/F s - G/F	0 90 85 60	0% 100% 90%	05-Sep-19 A			1							
GF1140 E&M Installation - MVAC Plant Rooms GF1180 E&M Installation - PD Plant Rooms GF1200 E&M Installation - Elv Plant Rooms GF1200 E&M Installation - Ist fix - R/F RF1010 E&M Installation - 1st fix - R/F RF1020 E&M Installation - Int fix - R/F RF1030 E&M Installation - Final fix - R/F Imissioning 00 00 T&C for Subcircuit Power On 80 Equipment Start-up T&C for FSI 810 Non-Essential T&C 85 Integrated T&C for FSI 80 Non-Essential T&C 86 Non-Essential T&C 87 Damper/Silencer and duct installation 87 Integrated T&C for FSI 80 Damper/Silencer and duct installation 87 Integrated tor TVF 87 Integrate tor TVF 87 Integrate tor TVF 87 Integrate tor TVF	oms - G/F s - G/F	90 85 60	100% 90%	05-Sep-19 A			-							
GF1180 E&M Installation - PD Plant Rooms GF1200 E&M Installation - Elv Plant Rooms GF1200 E&M Installation - Ist fix - R/F RF1010 E&M Installation - 1st fix - R/F RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F Imissioning 0 00 T&C for Subcircuit Power On 80 Equipment Start-up T&C for FSI 81 Individual E&M System T&C for FSI 82 Integrated T&C for FSI 83 Individual E&M System T&C for FSI 84 Non-Essential T&C 85 Integrated T&C for FSI 80 Non-Essential T&C 86 Damper/Silencer and duct installati 87 Installation 87 Damper/Silencer and duct installati 87 Damper/Silencer and duct installati 87 INB1100 Damper/Silencer and duct installati 87 INB1130 Damper/Silencer and duct installati 87 INB1130 Damper/Silencer and duct installati 87 INB1140 Ventilation fan and duct installation 1NB1150	s - G/F	85	90%											
GF1200 E&M Installation - Elv Plant Rooms RF1010 E&M Installation - 1st fix - R/F RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F Insistening 0 00 T&C for Subcircuit Power On 80 Equipment Start-up T&C for FSI 83 Individual E&M System T&C for FSI 840 Non-Essential T&C 85 Integrated T&C for FSI 80 Non-Essential T&C 86 Damper/Silencer and duct installati 87 Integrated T&C for TVF 86 Damper/Silencer and duct installati 87 Integrated tor TVF 87 Damper/Silencer and duct installati 87 Damper/Silencer and duct installati 87 INB1100 Damper/Silencer and duct installati 87 INB1130 Damper/Silencer and duct installati 87 INB1140 Ventilation fan and duct installati 87 INB1150 Leakage test for TVF 87		60		12-Sep-19 A			-		- 					
RF1010 E&M Installation - 1st fix - R/F RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F Insissioning 0 00 T&C for Subcircuit Power On 80 Equipment Start-up T&C for FSI 133 Individual E&M System T&C for FSI 140 Non-Essential T&C North Ventilation Building Atom Atom Fr4 IVB1530 Damper/Silencer and duct installati IVB1050 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1100 Leakage test for TVF IF-2 IVB1450 IVB1101 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1140 Ventilation fan and duct installati IVB1150 Leakage test for TVF IVB1150 Leakage test for TVF IVB1150 Leakage test for TVF	s - G/F		90%			-								
RF1020 E&M Installation - 2nd fix - R/F RF1030 E&M Installation - Final fix - R/F RF1030 E&M Installation - Final fix - R/F Insissioning 0 00 T&C for Subcircuit Power On 80 Equipment Start-up T&C for FSI 83 Individual E&M System T&C for FSI 840 Non-Essential T&C 85 Integrated T&C for FSI 80 Non-Essential T&C 86rth Ventilation Building Attributer 86rth Ventilation Building Attributer 87 Integrated T&C for FSI 80 Non-Essential T&C 80 Damper/Silencer and duct installation 87 Integrated T&F for TVF 87 INB1090 Damper/Silencer and duct installation 87 IVB1010 Damper/Silencer and duct installation 87 IVB1130 Damper/Silencer and duct installation 87 IVB1130 Damper/Silencer and duct installation 87 IVB1140 Ventilation fan and duct installation 87 IVB1150 Leakage test for TVF 87 IVB1170 Damper/Silencer and duct inst		30		03-Oct-19 A			2 2 2 2 2 2 2							
RF 1030 E&M Installation - Final fix - R/F Imissioning 00 T&C for Subcircuit Power On 30 Equipment Start-up T&C for FSI 33 Individual E&M System T&C for FSI 34 Individual E&M System T&C for FSI 35 Integrated T&C for FSI 40 Non-Essential T&C Non-Essential T&C Non-Essential T&C North Ventilation Building atton 1F-4 IVB1530 Damper/Silencer and duct installati IVB1050 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1101 Leakage test for TVF IVB1450 Damper/Silencer and duct installati IVB1101 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IF-5 IVB1170 Damper/Silencer and duct installation			100%	24-Oct-19 A					8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
RF 1030 E&M Installation - Final fix - R/F Imissioning 00 T&C for Subcircuit Power On 30 Equipment Start-up T&C for FSI 33 Individual E&M System T&C for FSI 34 Individual E&M System T&C for FSI 35 Integrated T&C for FSI 40 Non-Essential T&C Non-Essential T&C Non-Essential T&C North Ventilation Building atton 1F-4 IVB1530 Damper/Silencer and duct installati IVB1050 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1101 Leakage test for TVF IVB1450 Damper/Silencer and duct installati IVB1101 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IF-5 IVB1170 Damper/Silencer and duct installation		30	80%	31-Oct-19 A										
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80 Equipment Start-up T&C for FSI 83 Individual E&M System T&C for FSI 85 Integrated T&C for FSI 80 Non-Essential T&C Autom Non-Essential T&C IVB1050 Damper/Silencer and duct installati IVB1100 Damper/Silencer and duct installati IVB1130 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td>									8					
33 Individual E&M System T&C for FS 35 Integrated T&C for FSI 36 Non-Essential T&C 37 Non-Essential T&C 38 Integrated T&C for FSI 39 Non-Essential T&C 30 Non-Essential T&C 30 Non-Essential T&C 31 Integrated T&C for FSI 32 Non-Essential T&C 31 Non-Essential T&C 32 Integrated T&C for FSI 33 Integrated T&C for FSI 34 Integrated T&C for FSI 35 Integrated T&C for FSI 34 Damper/Silencer and duct installati 37 IVB1090 Damper/Silencer and duct installati 37 IVB1010 Damper/Silencer and duct installati 37 IVB1130 Damper/Silencer and duct installati 37 IVB1140 Ventilation fan and duct installation 37 IVB1150 Leakage test for TVF 37 IVB1170 Damper/Silencer and duct installation		12		09-Nov-19 A										
35 Integrated T&C for FSI 40 Non-Essential T&C Non-Essential T&C Non-Essential T&C North Ventilation Building Attention Attention Fr4 IVB1530 Damper/Silencer and duct installation IF-2 IVB1050 Damper/Silencer and duct installation IVB1090 Damper/Silencer and duct installation IVB1110 IVB1110 Leakage test for TVF IVB1450 Damper/Silencer and duct installation IVB1110 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation		6	100%	07-Nov-19 A					-					
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ation IF-4 IVB1530 Damper/Silencer and duct installati IF-2 IVB1050 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1090 Damper/Silencer and duct installati IVB1100 Leakage test for TVF IVB1450 Damper/Silencer and duct installati IVB1010 Damper/Silencer and duct installati IVB1130 Damper/Silencer and duct installati IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation		30	20%	13-Dec-19 A										
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IVB1050 Damper/Silencer and duct installation IVB1090 Damper/Silencer and duct installation IVB1100 Leakage test for TVF IVB1450 Damper/Silencer and duct installation IVB1450 Damper/Silencer and duct installation IVB1010 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation		12	100%	21-000-13 A			-							
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IVB1450 Damper/Silencer and duct installation IVB1010 Damper/Silencer and duct installation IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation		8	100%	04-Dec-19 A			1		8					
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IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation	tion - Lower Attenuator Room (R1/F)	12	100%	21-Oct-19 A		-								
IVB1130 Damper/Silencer and duct installation IVB1140 Ventilation fan and duct installation IVB1150 Leakage test for TVF IVB1170 Damper/Silencer and duct installation		12	10070		_		2 2 2 2 2 2		5 8 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
IVB1150 Leakage test for TVF (F-5 IVB1170 Damper/Silencer and duct installation (F-6	tion - Lower Attenuator Room (B1/F)	12	100%	27-Nov-19 A					- 8 8 8 8 8 8 8					
/F-5 IVB1170 Damper/Silencer and duct installati	n - Fan Room (G/F)	6	100%	11-Dec-19 A					8					
/F-5 IVB1170 Damper/Silencer and duct installati		8	100%	04-Dec-19 A					8 8 8					
IVB1170 Damper/Silencer and duct installati					_	-								
/F-6	tion - Lower Attenuator Room (B1/F)	12	100%	21-Sep-19 A										
		12	10070						-					
	tion - Lower Attenuator Room (B1/F)	12	10.0%	10-Sep-19 A										
	IIOII - LOWEI AILEHUAIOI KOOMI (BI/F)	12	100%	10-3ep-19 A			8 8		8 8 8 8 8					
IVB1250 Damper/Silencer and duct installati	tion - Lower Attenuator Room (B1/F)	12	100%	21-Oct-19 A		-								
IVB1270 Leakage test for TVF	· · · · · ·	8	100%	06-Dec-19 A										
		Ŭ					-		8		-		-	
/F-8 IVB1290 Damper/Silencer and duct installati		12	100%	27-Sep-19 A			-							
	tion - Lower Attenuator Room (B1/F)	12	100%	21-3ep-19A			-							

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	Activity	Duration (Days)	Duration % Start Complete	Finish	Total Float 2 May Jur		Sen Oct Nov	/ Dec Jan F	eh Mar An	20 r May Jun)19 Jul Aug Se	n Oct Nov [)ec Jan F	Feb Mar Apr	2020 May Jun	
TVF-NVB1330	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	12	100% 21-Oct-19 A												May barr	
TVF-NVB1350	Leakage test for TVF	8	100% 04-Dec-19 A									•				
NB-NVB-TVF-10 TVF-NVB1370	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	12	100% 02-Sep-19 A													
B2/F NVB-EMB21030	E&M Installation - Final fix - B2/F	50	100% 24-Jan-19 A													
NVB-EMB21080	E&M Installation - MVAC Plant Rooms - B2/F(For Services Gallery)	60	90% 22-Jul-19 A	_												
NVB-EMB21100	E&M Installation - FS Plant Rooms - B2/F(For Tunnel)	45	90% 22-Jul-19 A													
NVB-EMB21120	E&M Installation - PD Plant Rooms - B2/F	60	90% 20-Aug-19 A													
NVB-EMB21140	E&M Installation - Elv Plant Rooms - B2/F	45	90% 13-Aug-19 A													
<i>B1/F</i> NVB-EMB11030	E&M Installation - Final fix - B1/F	50	100% 24-Jan-19 A							-						
NVB-EMB11080	E&M Installation - MVAC Plant Rooms - B1/F(For Services Gallery)	60	90% 21-Aug-19 A													
NVB-EMB11100	E&M Installation - Elv Plant Rooms - B1/F	45	90% 13-Aug-19 A													
G/F NVB-EMGF1030	E&M Installation - Final fix - G/F	50	100% 24-Jan-19 A													
NVB-EMGF1120	E&M Installation - Genset Room & Fuel Tank Room - G/F	80	100% 06-Aug-19 A													
NVB-EMGF1200	E&M Installation - PD Plant Rooms - G/F	90	90% 20-Aug-19 A	_												
1/F NVB-EM1F1030	E&M Installation - Final fix - 1/F	50	100% 31-Jan-19 A													
NVB-EM1F1240	E&M Installation - MVAC Plant Rooms - 1/F	90	100% 22-Jul-19 A													
2/F NVB-EM2F1030	E&M Installation - Final fix - 2/F	50	100% 07-Feb-19 A													
NVB-EM2F1080	E&M Installation - MVAC Plant Rooms - 2/F	60	100% 06-Aug-19 A									_				
NVB-EM2F1100	E&M Installation - Elv Plant Rooms - 2/F	45	85% 13-Aug-19 A													
Lift Installation (L01 & NVB-LF1040	L02) Final adjustment, Submission of Form LE5 & EMSD processing	20	100% 27-Nov-19 A													
NVB-LF1050	Issuance of lift use permit	0	100%									•				
Testing & Commission NVB-TC1030	ing Equipment Start-up T&C for FSI	12	100% 26-Sep-19 A													
NVB-TC1033	Individual E&M System T&C for FSI	42	100% 03-Oct-19 A													
NVB-TC1035	Integrated T&C for FSI	6	100% 21-Nov-19 A									-				
NVB-TC1040	Non-Essential T&C	30	0% 05-Dec-19 A	—										0		
NVB-TC1050	KD6 Achieved	0	100%										•			
	osk N2 (Structure Completed under KD2)															
EN2120 EN2130	ABWF Works (Door, windows, tiles) E&M Works	30 31	90% 21-Oct-19 A 0% 24-Dec-19													
EN2130	Testing & Comissioning	12	0% 24-Dec-19													
Key Date 3 - Satellite Control E																
Building Structure SCB180	Handover Portion XVIIb to HY/2012/08	0	0%										•			
ABWF Works (for All)																
ASCB1020	ABWF Works to Plant Rooms G/F	60	97% 27-Aug-19 A													
			CONTRA	ACT NO. HY2017	7/10						P 9		Revisi	ion Checl	ked	Approved
		NORT	THERN TUNNEL CO	ONNECTION BU	JILDING E&N	/ WORK	S					20-Dec-19		<u> </u>		
		Tł	HREE MONTHLY PF	ROGRAMME AS	S OF 20 Dec	2019										

D	Activity	Duration	Duration % Start	Finish Total	
B			Complete	Float 2018 2019 2020	
			-	May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun	un Jul Aug Sep
ASCB1021	ABWF Works to Plant Rooms 1/F	60	97% 03-Sep-19 A		
ASCB1022	ABWF Works to Plant Rooms 2/F	60	97% 28-Sep-19 A		
ASCB1030	ABWF Works to Office and Corridors G/F	95	97% 27-Aug-19 A		
ASCB1031	ABWF Works to Office and Corridors 1/F	95	97% 03-Sep-19 A		
ASCB1040	ABWF Works to Toilets 1/F	103	97% 03-Sep-19 A		
ASCB1050	Waterproofing and Roofing	50	100% 21-Oct-19 A		
ASCB1060	External Cladding and Wall Plastering	101	65% 21-Oct-19 A		
ASCB1070	ABWF second fix & final fix	56	0% 24-Feb-20		
Provision for TCSS Installation					
SCB210	Cable Containment Installation to enable TCSS installation	62	20% 09-Dec-19 A		
SCB220	KD3 Achieved	0	0%		
Key Date 5 - E&M Works for T	CB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads				
E&M Works for TCB					
Installation					
Basement					
TCB-EM1001	E&M Installation - 1st fix - Basement	60	100% 10-Apr-19 A		
TCD-LW1001	Low installation - Tst in - Daschieft	00			
TCB-EM1002	E&M Installation - 2nd fix - Basement	60	92% 04-Jun-19 A		
TCB-EM1002	E&M Installation - Final fix - Basement	60	77% 24-Jul-19 A		
G/F		00			
TCB-EMGF1020	E&M Installation - 2nd fix - G/F	60	100% 15-May-19 A		
		00	10070 10-Way-18A		
TCB-EMGF1030	E&M Installation - Final fix - G/F	60	42% 24-Jul-19 A		
TCB-EMGF1080	Wiring Inspection with CLP	12	50% 28-Nov-19 A		
		12	Lonor Ion		
TCB-EMGF1090	Power On Energization by CLP	0	0%		
TCB-EMGF1130	Sub-Circuit Power On - LV Switch Room - G/F	0	0%		
TCB-EMGF1150	E&M Installation - Generator & Fuel Tank Rooms - G/F	90	94% 13-Aug-19 A		
			of the normagneric		
TCB-EMGF1200	E&M Installation - MVAC Plant Rooms - G/F	90	90% 22-Jul-19 A		
TCB-EMGF1220	E&M Installation - FS Plant Rooms - G/F	90	90% 05-Jul-19 A		
TCB-EMGF1240	E&M Installation - PD Plant Rooms - G/F	60	75% 22-Jul-19 A		
1/F					
TCB-EM1F1030	E&M Installation - Final fix - 1/F	60	72% 26-Jul-19 A		
TCB-EM1F1100	E&M Installation - PD Plant Rooms - 1/F	90	75% 05-Jul-19 A		
2/F		30	7370 03-50I-19 A		
TCB-EM2F1030	E&M Installation - Final fix - 2/F	48	74% 26-Jul-19 A		
	E&M Installation - MVAC Plant Rooms - 2/F	-			
TCB-EM2F1080	Eavi Installation - MVAC Plant Rooms - 2/F	90	90% 06-Aug-19 A		
TCB-EM2F1100	E&M Installation - Elv Plant Rooms - 2/F	60	75% 30-Jul-19 A		
Roof		00	7370 30-301-13 A		
TCB-EMRF1010	E&M Installation - 1st fix - Roof	50	95% 15-Aug-19 A		
TCD-EIVIRF 1010	Edivi Ilistaliation - Tst IIX - Rool	50	9376 13-Aug-19 A		
TCB-EMRF1020	E&M Installation - 2nd fix - Roof	50	67% 05-Sep-19 A		
TCB-EMRF1030	E&M Installation - Final fix - Roof	40	40% 07-Nov-19 A		
Lift Installation (LO1)					
TCB-LF1010	Lift & lift machine room installation	90	85% 29-Aug-19 A		
TCB-LF1020	Testing & commissioning	12	0% 09-Jan-20		
TCB-LF1030	Final adjustment, Submission of Form LE5 & EMSD processing	30	0% 23-Jan-20		
TCB-LF1040	Issuance of lift use permit	0	0%		
Testing and Commissioning	•		-		
TCB-TC1000	T&C for Subcircuit Power On	32	0% 30-Dec-19		
TCB-TC1000	Equipment Start-up T&C for FSI	12	0% 30-Dec-19		
TCB-TC1023	Individual E&M System T&C for FSI	49	0% 29-Feb-20		
Kiosk N1					
EN140	ABWF Works (Door, windows, tiles)	30	55% 14-Nov-19 A		
EN150	E&M works	36	0% 08-Jan-20		
EN160	T&C	12	0% 22-Feb-20		
Underpass					
E&M Works at Underpass					
EU120	Remaining E&M Installations	37	85% 20-Jun-19 A		
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TNL-SG1070 Wall Mounted Pipe Module Installation CH5000 - 3050 30 99% 23-May-19.A TNL-SG1080 Ceiling Mounted Module Installation CH5000 - 3050 30 99% 30-May-19.A TNL-SG1090 High Level 2nd Fix and Final Fix Installation CH5000 - 3050 43 10% 15-Oct-19.A TNL-SG1100 Cabling Works CH5000 - 3050 28 0% 03-Mar-20 TNL-SG1100 Low Level 2nd Fix and Final Fix Installation CH5000 - 3050 24 0% 03-Mar-20 TNL-SG1120 Drilling works CH3050 - 2500 12 99% 24-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 24-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A <																
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TNL-SG 1090 High Level 2nd Fix and Final Fix Installation CH5000 - 3050 43 10% 15-Oct-19 A TNL-SG 1100 Cabling Works CH5000 - 3050 28 0% 30-Jan-20 TNL-SG 1110 Low Level 2nd Fix and Final Fix Installation CH5000 - 3050 24 0% 03-Mar-20 CH3050 - 2500 TNL-SG 1120 Drilling works CH3050 - 2500 12 99% 24-Jul-19 A TNL-SG 1120 Celling Mounted Pipe Module Installation CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG 1140 Celling Works CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG 1140 Celling Works CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG 1160 Cabling Works CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG 1160 Cabling Works CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG 1160 Cabling Works CH3050 - 2500 12 99% 31-Jul-19 A Rocat Level & OHVD TNC-SG 1100 TNC-SG 1100 TNC-SG 1100 TNC-SG 1100 Rocat Level & OHVD TNC-SG 1100 SG 24 SG 24-Jul-19 A TOCONTRACT NO. HY2017/10 Rocat Level & OHVD TOCONTRACT NO. HY2017/10 TOCONTRACT NO. HY2017/10 TOCONTRACT NO. HY2017/10																
TNL-SG1100 Cabling Works CH5000 - 3050 28 0% 30-Jan-20 TNL-SG1110 Low Level 2nd Fix and Final Fix Installation CH5000 - 3050 24 0% 03-Mar-20 CH3050 - 2500 TNL-SG1120 Dnilling works CH3050 - 2500 3 99.01% 17-Jul-19.A TNL-SG1120 Dnilling works CH3050 - 2500 12 99% 24-Jul-19.A TNL-SG1140 Celling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Celling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Image: Contract No. Hy2017/10 Road Level & OHVD CONTRACT NO. HY2017/10 NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS P11 Date Revision Checked Appre 20-Dec-19 Image: Contract No. Hy2017/10 Image: Contract No. Hy2017	TNL-SG1080	Ceiling Mounted Module Installation CH5000 - 3050	30	99% 30-May-19 A												
TNL-SG1100 Cabling Works CH5000 - 3050 28 0% 30-Jan-20 TNL-SG1110 Low Level 2nd Fix and Final Fix Installation CH5000 - 3050 24 0% 03-Mar-20 CH3050 - 2500 TNL-SG1120 Drilling works CH3050 - 2500 3 99.01% 17-Jul-19.A TNL-SG1120 Drilling works CH3050 - 2500 12 99% 24-Jul-19.A TNL-SG1140 Celling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1140 Celling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Image: Contract No. HY2017/10 Road Level & OHVD CONTRACT NO. HY2017/10 P11 Date Revision Checked Appr NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS Image: Contract No. Hy2017/10																
TNL-SG1110 Low Level 2nd Fix and Final Fix Installation CH5000 - 3050 24 0% 03-Mar-20 CH3050 - 2500 TNL-SG1120 Drilling works CH3050 - 2500 3 99.01% 17.Jul-19.A TNL-SG1130 Wal Mounted Pipe Module Installation CH3050 - 2500 12 99% 24-Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 CONTRACT NO. HY2017/10 P 11 Date Revision Checked Appr NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS																
CH3050-2500 3 99.01% 17.Jul-19.A TNL-SG1120 Drilling works CH3050-2500 12 99% 24.Jul-19.A TNL-SG1130 Wall Mounted Pipe Module Installation CH3050-2500 12 99% 31.Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050-2500 12 99% 31.Jul-19.A TNL-SG1160 Cabling Works CH3050-2500 13 0% 0.4Mar-20 Road Level & OHVD CONTRACT NO. HY2017/10 P11 Date Revision Checked Approx NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS P1 Date Revision Checked Approx									·							
TNL-SG1120 Drilling works CH3050 - 2500 3 99.01% 17.Jul-19.A TNL-SG1130 Wall Mounted Pipe Module Installation CH3050 - 2500 12 99% 24.Jul-19.A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31.Jul-19.A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03.Mar-20 CONTRACT NO. HY2017/10 P11 Date Revision Checked Appro 20-Dec-19 1 Interstructure		Low Level 2nd Fix and Final Fix Installation CH5000 - 3050	24	0% 03-Mar-20												
TNL-SG1130 Wall Mounted Pipe Module Installation CH3050 - 2500 12 99% 24-Jul-19 A TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Road Level & OHVD																
TNL-SG1140 Ceiling Mounted Module Installation CH3050 - 2500 12 99% 31-Jul-19 A TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Image: Constant of the constant	TNL-SG1120		3	99.01% 17-Jul-19 A												
TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Road Level & OH VD CONTRACT NO. HY2017/10 NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS		Wall Mounted Pipe Module Installation CH3050 - 2500	12	99% 24-Jul-19 A												
TNL-SG1160 Cabling Works CH3050 - 2500 13 0% 03-Mar-20 Road Level & OH VD CONTRACT NO. HY2017/10 NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS	TNL-SG1140	Ceiling Mounted Module Installation CH3050 - 2500	12	99% 31-Jul-19 A												
Road Level & OHVD P 11 Date Revision Checked Approx CONTRACT NO. HY2017/10 P11 Date Revision Checked Approx NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS Image: Constant of the con			13	0% 03-Mar-20												
CONTRACT NO. HY2017/10 P 11 Date Revision Checked Appr NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS 20-Dec-19													Det	Devictor		A
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS				CONTF	RACT NO. HY20	17/10						P 11			Checked	Appro
													20-Dec-19			
			NOR	THERN TUNNEL C	ONNECTION BU	UILDING E8	kM W(ORKS								
THREE MONTHLY PROGRAMME AS OF 20 Dec 2019								-						1	1	1
			T 1				~ 201	0								+

	Activity	Duration (Days)	Duration % Start Complete	Finish	Total Float	20	18		at N		T-LIM	A	201	9			J-	1.1 Am	20
00 - 5000						viay Jun	Jul Au	ig Sep O	ct Nov I	Dec Jan	reb Mar	Apr M	ay Jun	Jul Aug S	ep Oct Nov	⊔ec Jan F	ae	Mar Ap	Mar Apr Iv
7200 - 6700 TNU-RL1800	FH/ HR pipe installation - CH7200 to 6700	8	95% 02-Apr-19 A	_															
			· ·																
TNU-RL1880	High level wiring works and remaining High level works in the middle of tunnels - CH7200 to 6700	20	85% 22-Jul-19 A																
TNU-RL1910	Low level works - FS nicle module - CH7200 to 6700	10	80% 18-Sep-19 A																
TNU-RL1930	Low level works - FS nicle connection - CH7200 to 6700	10	50% 21-Oct-19 A	-															
TNU-RL1940	Final connection to small powers - CH7200 to 6700	10	0% 30-Dec-19																
TNU-RL1940	Cladding works - CH7200 to 6700	13	0% 14-Dec-19 A																
6700 - 6100 TNU-RL1030	Cabling Works on Brackets - CH6700 to 6100	17	100% 16-Apr-19 A																
		44	•	_															
TNU-RL1040	MSFD delivery in OHVD - CH6700 to 6100	11	100% 18-May-19 A				8									-			
TNU-RL1050	MSFD installation works in OHVD - CH6700 to 6100	11	100% 18-May-19 A																
TNU-RL1060	High level wiring works and remaining High level works in the middle of	24	85% 22-Jul-19 A	_															
	tunnels - CH6700 to 6100			_															
TNU-RL1070	Low level works - FS nicle module - CH6700 to 6100	12	80% 21-Oct-19 A																
TNU-RL1080	Low level works - FS nicle connection - CH6700 to 6100	12	50% 28-Oct-19 A				8									-			
TNU-RL1090	Final connection to small powers - CH6700 to 6100	10	0% 11-Jan-20	_			8												
TNU-RL1100	Cladding works - CH6700 to 6100	15	0% 30-Jan-20														•		
6100 - 5600 TNU-RL1140	Cabling Works on Brackets - CH6100 to 5600	14	100% 23-Apr-19 A																
TNU-RL1170	High level wiring works and remaining High level works in the middle of tunnels - CH6100 to 5600	20	85% 12-Jul-19 A																
TNU-RL1180	Low level works - FS nicle module - CH6100 to 5600	10	70% 28-Oct-19 A	_															
TNU-RL1190	Low level works - FS nicle connection - CH6100 to 5600	10	50% 04-Nov-19 A	_			8												
TNU-RL1200	Final connection to small powers - CH6100 to 5600	10	0% 23-Jan-20	_															
TNU-RL1210 5600 - 5000	Cladding works - CH6100 to 5600	13	0% 17-Feb-20				8												
TNU-RL1250	Cabling Works on Brackets - CH5600 to 5000	17	100% 23-Apr-19 A																
TNU-RL1280	High level wiring works and remaining High level works in the middle of	24	85% 20-Jun-19 A	_															
	tunnels - CH5600 to 5000	10		_															
TNU-RL1290	Low level works - FS nicle module - CH5600 to 5000	12	70% 28-Oct-19 A																
TNU-RL1300	Low level works - FS nicle connection - CH5600 to 5000	12	50% 04-Nov-19 A																
TNU-RL1310	Final connection to small powers - CH5600 to 5000	10	0% 07-Feb-20	_															
TNU-RL1320	Cladding works - CH5600 to 5000	15	0% 03-Mar-20														-	-	-
000 - 3050 5000 - 4500																			
TNU-RL1860	MSFD delivery in OHVD - CH5000 to 4500	9	98% 17-Jul-19 A													-			
TNU-RL1890	MSFD installation works in OHVD - CH5000 to 4500	0	98% 17-Jul-19 A	_															
		9																	
TNU-RL1900	High level wiring works and remaining High level works in the middle of tunnels - CH5000 to 4500	20	85% 30-Jul-19 A																
TNU-RL1920	Low level works - FS nicle module - CH5000 to 4500	10	70% 04-Nov-19 A	_															
TNU-RL1950	Low level works - FS nicle connection - CH5000 to 4500	10	50% 11-Nov-19 A	_															
TNU-RL1960	Final connection to small powers - CH5000 to 4500	10	0% 19-Feb-20														-	-	-
TNU-RL1980	Cladding works - CH5000 to 4500	13	50% 04-Nov-19 A															-	
4500 - 4000 TNUL DL 1200	High lovel within works and remaining Ligh lovel works in the widdle of		950/ 06 Aur 40 A				8												
TNU-RL1390	High level wiring works and remaining High level works in the middle of tunnels - CH4500 to 4000	20	85% 06-Aug-19 A																
							-			-									
			CONTE	ACT NO. HY20	2017/10									P 12		Revisio	n	Che	Checke
		NOP	THERN TUNNEL C			3 F & M	WOF	RS							20-Dec-19	+	\dashv		
		NUN														+	+		
		т	HREE MONTHLY F		AS OF 20		2010										\rightarrow		

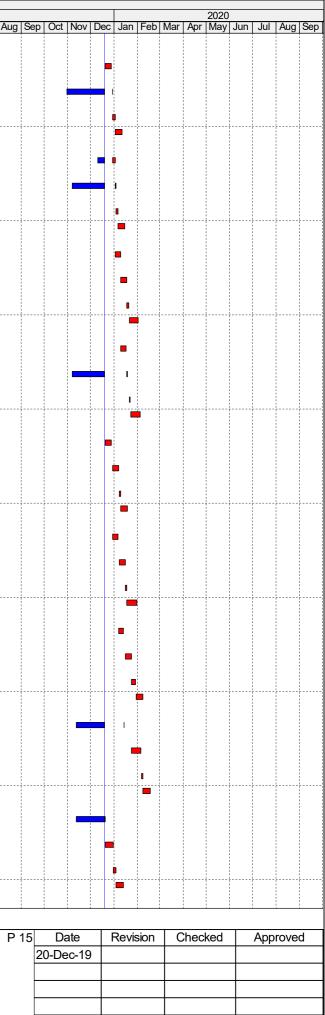
	Activity	Duration (Days)	Duration % Complete	
TNU-RL1400	Low level works - FS nicle module - CH4500 to 4000	10		04-Nov-19 A
TNU-RL1410	Low level works - FS nicle connection - CH4500 to 4000	10	50%	11-Nov-19 A
TNU-RL1420	Final connection to small powers - CH4500 to 4000	10	0%	02-Mar-20
TNU-RL1430	Cladding works - CH4500 to 4000	13	30%	31-Oct-19 A
4000 - 3500				
TNU-RL1480	MSFD delivery in OHVD - CH4000 to 3500	9	95%	06-Aug-19 A
	MSED installation works in OLIVID. CL4000 to 2500	9	05%	06 Aug 10 A
TNU-RL1490	MSFD installation works in OHVD - CH4000 to 3500	9	95%	06-Aug-19 A
TNU-RL1500	High level wiring works and remaining High level works in the middle of	20	85%	06-Aug-19 A
TNU-RL1510	tunnels - CH4000 to 3500 Low level works - FS nicle module - CH4000 to 3500	10	70%	04-Nov-19 A
INO-RE1310	Low level works - FS flice flioudile - Ch4000 to 5500	10	7070	04-110V-19 A
TNU-RL1520	Low level works - FS nicle connection - CH4000 to 3500	10	50%	11-Nov-19 A
TNU-RL1530	Final connection to small powers - CH4000 to 3500	10	0%	13-Mar-20
TNU-RL1540	Cladding works - CH4000 to 3500	13		28-Oct-19 A
CH3500 - 3050 TNU-RL1590	MSFD delivery in OHVD - CH3500 to 3050	0	100%	13-Aug-19 A
1110-FLE 1090		9	100%	13-7-ug-18 A
TNU-RL1600	MSFD installation works in OHVD - CH3500 to 3050	9	100%	13-Aug-19 A
TNU-RL1610	High level wiring works & remaining High level works in the tunnel middle -	20	30%	13-Aug-19 A
	CH3500 to 3050			
TNU-RL1620	Low level works - FS nicle module - CH3500 to 3050	10	70%	11-Nov-19 A
TNU-RL1630	Low level works - FS nicle connection - CH3500 to 3050	10	50%	18-Nov-19 A
		10	001	05 Mar 00
TNU-RL1640 TNU-RL1650	Final connection to small powers - CH3500 to 3050 Cladding works - CH3500 to 3050	10 11		25-Mar-20 28-Oct-19 A
			20%	20-00E13 A
50 - 2500 (ML02)				
IU-RL1670	Lighting in the middle of tunnels - CH3050 to 2500	8	100%	04-Nov-19 A
NU-RL1680	FH/ HR pipe installation - CH3050 to 2500	4	65%	31-Oct-19 A
NU-RL1690	Cabling Works on Brackets - CH3050 to 2500	11	40%	06-Nov-19 A
TNU-RL1700	MSFD delivery in OHVD - CH3050 to 2500	0	68 00%	31-Oct-19 A
TNU-RL1700	MSFD delivery in OnVD - Ch3050 to 2500 MSFD installation works in OHVD - CH3050 to 2500	9		31-Oct-19 A 31-Oct-19 A
NU-RL1720	High level wiring works and remaining High level works in the middle of	12		07-Feb-20
	tunnels - CH3050 to 2500			
FNU-RL1730 FNU-RL1740	Low level works - FS nicle module - CH3050 to 2500	5		15-Feb-20
NU-RL1740 3050 - 2500 (ML03)	Low level works - FS nicle connection - CH3050 to 2500	5	0%	18-Feb-20
NU-RL3120	Bracket fixing on side wall - CH3050 to 2500	8	0%	20-Dec-19
NU-RL3130	Lighting in the middle of tunnels - CH3050 to 2500	8	100%	02-Dec-19 A
NU-RL3140	FH/ HR pipe installation - CH3050 to 2500	A	0%	27-Dec-19
NU-RL3150	Cabling Works on Brackets - CH3050 to 2500	11		02-Jan-20
TNU-RL3155	MSFD delivery in OHVD - CH3050 to 2500	9		30-Nov-19 A
			001	17 Jan 00
TNU-RL3160 TNU-RL3170	MSFD installation works in OHVD - CH3050 to 2500 High level wiring works and remaining High level works in the middle of	9		17-Jan-20 07-Feb-20
	tunnels - CH3050 to 2500	12	0 %	
TNU-RL3180	Low level works - FS nicle module - CH3050 to 2500	5		15-Feb-20
TNU-RL3190	Low level works - FS nicle connection - CH3050 to 2500	5	0%	18-Feb-20
Other Works TNU-OW1000	HV Cabling Works in Tunnels	48	000/	02-Oct-19 A
TNU-OW1000 TNU-OW1010	HV Cabling Works in Tunnels FR enclosure installation	48		02-Oct-19 A 20-Dec-19
		72	070	
- NL-10TC1010	Permanent power available to tunnels from NVB	0	0%	04-Feb-20
TNL-10TC1016	Partial T&C for Tunnel Ventilation System - CH 7200 to 2500	89	50%	21-Oct-19 A
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		NOR	THERN	TUNNEL C
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	Activity		Duration % Start
		(Days)	Complete
	T&C for Tunnel Lighting - CH 7200 to 2500	47	0% 23-Mar-20
	T&C for other Tunnel Services - CH 7200 to 2500 T&C for MSFD - CH 7200 to 2500	48 30	0% 18-Mar-20 25% 21-Nov-19 A
	tellite Control Building and Kiosks S1&S2	00	2010 211100 1011
M Works for Satellite Contro			
E&M Works			
Installation G/F			
SCB-EMGF1000	ABWF Works ready for E&M Mobilization to General Areas - G/F	0	0% 20-Dec-19
SCB-EMGF1010	E&M Installation - 1st fix - G/F	30	40% 02-Dec-19 A
SCB-EMGF1020	E&M Installation - 2nd fix - G/F	30	5% 09-Dec-19 A
SCB-EMGF1030	E&M Installation - Final fix - G/F	30	0% 19-Feb-20
SCB-EMGF1050	E&M Installation - Generator Room & Fuel Tank Room - G/F	70	35% 02-Dec-19 A
SCB-EMGF1070	E&M Installation - LV Switch Room - G/F	60	20% 22-Nov-19 A
SCB-EMGF1080	Cable laying - LV Switch Room - from G/F	42	0% 08-Feb-20
	E&M Installation - CLP Tx Room - G/F	18	100% 15-Oct-19 A
SCB-EMGE1120	Inspection & Handover to CLP	6	0% 20-Dec-19
	Installation by CLP - CLP Tx Room - G/F	68	0% 30-Dec-19
SCB-EMGF1180	E&M Installation - FS Plant Rooms - G/F	80	10% 02-Dec-19 A
SCB-EMGF1200	E&M Installation - PD Plant Rooms - G/F	90	10% 21-Nov-19 A
1/F			
SCB-EM1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0% 20-Dec-19
SCB-EM1F1010	E&M Installation - 1st fix - 1/F	30	30% 09-Dec-19 A
SCB-EM1F1020	E&M Installation - 2nd fix - 1/F	30	0% 15-Jan-20
	E&M Installation - Final fix - 1/F	30	0% 20-Feb-20
SCB-EM1F1040	ABWF Works ready for E&M Mobilization to Computer Room (TCSS) - 1/F	0	0% 20-Dec-19
SCB-EM1F1050	E&M Installation - Computer Room (TCSS) - 1/F	60	0% 02-Jan-20
	ABWF Works ready for E&M Mobilization to EL Room - 1/F	0	0% 20-Dec-19
	E&M Installation - EL Room - 1/F	90	0% 20-Dec-19
SCB-EMIT-1090	ABWF Works ready for E&M Mobilization to FS Plant Rooms - 1/F	0	0% 20-Dec-19
	E&M Installation - FS Plant Rooms - 1/F	85	0% 20-Dec-19
SCB-EM1F1110	ABWF Works ready for E&M Mobilization to Elv Plant Room - 1/F	0	0% 20-Dec-19
SCB-EM1F1120	E&M Installation - ELV Plant Room - 1/F	70	0% 27-Dec-19
Roof			01/ 00 D 40
	ABWF Works ready for E&M Mobilization to R/F E&M Installation - 1st fix - R/F	0 25	0% 20-Dec-19 0% 20-Dec-19
	E&M Installation - 2nd fix - R/F	25	0% 22-Jan-20
	E&M Installation - Final fix - R/F	25	0% 24-Feb-20
	ABWF Works ready for E&M Mobilization to FS Plant Rooms E&M Installation - FS Plant Rooms	0 75	0% 20-Dec-19 0% 02-Jan-20
Lift Installation (L01)	Eavy Installation - F3 Plant Rooms	75	0% 02-Jan-20
SCB-LF1010	Access to lift shaft and lift machine room	0	0% 20-Dec-19
	Lift & lift machine room installation	75	0% 20-Dec-19
	Testing & commissioning	12	0% 24-Mar-20
osk S2 S2120	Structure	30	0% 20-Dec-19
S2130	ABWF Works (Door, windows, tiles)	15	0% 31-Jan-20
	E&M works	36	0% 18-Feb-20
Date 6C - E&M Works for So /B-SEM1000	South Ventilation Building SEM Drawings ready for Structural Works for SVB	0	0% 20-Dec-19
/B-SEM1000 tallation		U	U70 ZU-DeC-19
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	Activity	Duration	Duration % Start	Finish	Total							
		(Days)	Complete		Float	2018 1ay Jun Jul Aug S	ep Oct Nov F	ec Jan I	- eb Mar Apr Ma	2019 2019 Jun		Ţŝ
/F Installation		1 1								.,	<u>, , , , , , , , , , , , , , , , , , , </u>	
IB-SVB-TVF-1												ł
SVB-TVF2000	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 20-Dec-19									
SVB-TVF2010	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	90% 31-Oct-19 A									
SVB-TVF2020	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 30-Dec-19									Ì
SVB-TVF2030	Leakage test for TVF	8	0% 02-Jan-20									
NB-SVB-TVF-2												
SVB-TVF2040	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	50% 11-Dec-19 A									
SVB-TVF2050	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	90% 07-Nov-19 A									
SVB-TVF2060	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 03-Jan-20									
SVB-TVF2070	Leakage test for TVF	8	0% 06-Jan-20									1
NB-SVB-TVF-3				_								
SVB-TVF2080	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 03-Jan-20									
SVB-TVF2090	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	0% 10-Jan-20									
SVB-TVF2100	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 18-Jan-20									ĺ
SVB-TVF2110	Leakage test for TVF	8	0% 21-Jan-20									
NB-SVB-TVF-4												
SVB-TVF2120	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 10-Jan-20									
SVB-TVF2130	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	8	90% 07-Nov-19 A									
SVB-TVF2140	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 21-Jan-20									-
SVB-TVF2150	Leakage test for TVF	8	0% 23-Jan-20									
SB-SVB-TVF-1												ł
SVB-TVF2160	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 20-Dec-19									
SVB-TVF2170	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	0% 30-Dec-19									
SVB-TVF2180	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 08-Jan-20									
SVB-TVF2190	Leakage test for TVF	8	0% 10-Jan-20		[··							
SB-SVB-TVF-2												
SVB-TVF2200	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 30-Dec-19									
SVB-TVF2210	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	0% 08-Jan-20									
SVB-TVF2220	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 16-Jan-20									
SVB-TVF2230	Leakage test for TVF	8	0% 18-Jan-20									
SB-SVB-TVF-3												
SVB-TVF2240	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0% 07-Jan-20									
SVB-TVF2250	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	0% 16-Jan-20									
SVB-TVF2260	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 24-Jan-20									-
SVB-TVF2270	Leakage test for TVF	8	0% 30-Jan-20									-
SB-SVB-TVF-4			·									
SVB-TVF2280	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	90% 13-Nov-19 A									
SVB-TVF2290	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	8	0% 24-Jan-20									
SVB-TVF2300	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 06-Feb-20									
SVB-TVF2310	Leakage test for TVF	8	0% 08-Feb-20									÷
SB-SVB-TVF-5												
SVB-TVF2320	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	90% 13-Nov-19 A									-
SVB-TVF2330	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7	0% 20-Dec-19	_								
SVB-TVF2340	Ventilation fan and duct installation - Fan Room (G/F)	2	0% 31-Dec-19									
	· · · · ·							····			·····	. .
SVB-TVF2350	Leakage test for TVF	8	0% 03-Jan-20									

CONTRACT NO. HY2017/10

NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS

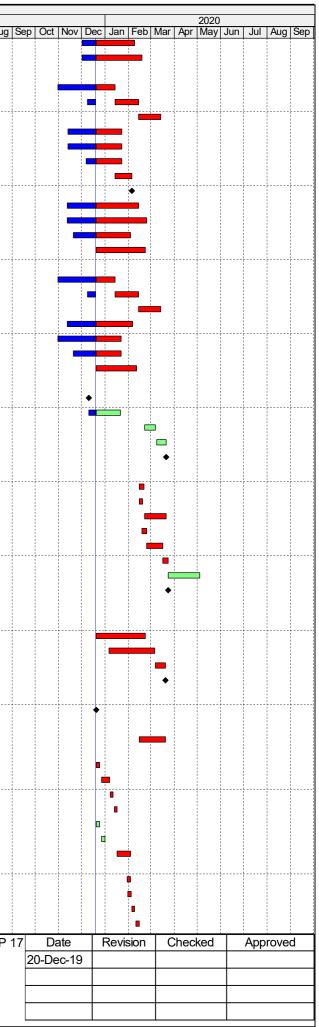


	Activity	Duration Duration % Start	Finish	Total	_							-1			
		(Days) Complete		Float 2018 May Jun J		g Sep 0	Oct Nov De	c Jan Feb I	20 Mar Apr May Jun)19 Jul Aug Sep	Oct Nov De	c Jan Feb I		020 1ay Jun	Jul Aug
SVB-TVF2360	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6 0% 20-Dec-19													
SVB-TVF2370	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7 0% 31-Dec-19										-			
SVB-TVF2380	Ventilation fan and duct installation - Fan Room (G/F)	2 0% 09-Jan-20													8
SVB-TVF2390	Leakage test for TVF	8 0% 11-Jan-20													
SB-SVB-TVF-7	5				-										
SVB-TVF2400	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6 100% 11-Dec-19													8
SVB-TVF2410	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7 90% 31-Oct-19													8
SVB-TVF2420	Ventilation fan and duct installation - Fan Room (G/F)	2 0% 24-Dec-19													8
SVB-TVF2430	Leakage test for TVF	8 0% 28-Dec-19													
SB-SVB-TVF-8															
SVB-TVF2440	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6 100% 11-Dec-19													8
SVB-TVF2450	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7 90% 30-Oct-19													
SVB-TVF2460	Ventilation fan and duct installation - Fan Room (G/F)	2 0% 28-Dec-19													
SVB-TVF2470	Leakage test for TVF	8 0% 31-Dec-19										-			
SB-SVB-TVF-9															8
SVB-TVF2480	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6 100% 11-Dec-19													8
SVB-TVF2490	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	7 90% 31-Oct-19			8										8
SVB-TVF2500	Ventilation fan and duct installation - Fan Room (G/F)	2 0% 31-Dec-19													
SVB-TVF2510	Leakage test for TVF	8 0% 03-Jan-20										•			
SB-SVB-TVF-10	Cilencer en litter en debet installation . Lles en Attenuesten Deser (4/E)	0% 00 Da - 40													-
SVB-TVF2520	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6 0% 20-Dec-19													
SVB-TVF2530	Damper/Silencer and duct installation - Lower Attenuator Room(B1/F)	8 0% 30-Dec-19													-
SVB-TVF2540	Ventilation fan and duct installation - Fan Room (G/F)	2 0% 09-Jan-20													
SVB-TVF2550	Leakage test for TVF	8 0% 11-Jan-20													-
B2/F SVB-EMB21010	FOM Installation dat five PO/F	05 05% 10 Mar 10													
SVB-EMB21010 SVB-EMB21020	E&M Installation - 1st fix - B2/F E&M Installation - 2nd fix - B2/F	25 95% 18-Mar-19 25 50% 21-Aug-19													8
SVB-EMB21020	E&M Installation - Final fix - B2/F	25 5% 02-Dec-19													
SVB-EMB21060	E&M Installation - Electrical Plant Rooms- B2/F	40 25% 31-Oct-19													
SVB-EMB21080	E&M Installation - MVAC Paint Rooms - B2/F	60 20% 31-Oct-19													8
SVB-EMB21100	E&M Installation - FS Plant Rooms - B2/F	45 20% 31-Oct-19													
SVB-EMB21110	E&M Installation - PD PaInt Rooms - B2/F	60 15% 31-Oct-19													
B1/F															
SVB-EMB11010	E&M Installation - 1st fix - B1/F	25 80% 21-Aug-19													
SVB-EMB11020	E&M Installation - 2nd fix - B1/F	25 50% 04-Sep-19										-			8
SVB-EMB11030	E&M Installation - Final fix - B1/F	25 5% 02-Dec-19									-	-			-
SVB-EMB11060	E&M Installation - Electrical Plant Rooms - B1/F	40 25% 06-Nov-19													
SVB-EMB11080	E&M Installation - MVAC Plant Rooms - B1/F	60 20% 06-Nov-19													
SVB-EMB11100	E&M Installation - FS Plant Rooms - B1/F	48 20% 06-Nov-19													
SVB-EMB11120	E&M Installation - Elv Plant Rooms - B1/F	48 10% 12-Nov-19													
G/F		05 000/ 04.0													
SVB-EMGF1010	E&M Installation - 1st fix - G/F	25 60% 04-Sep-19													
SVB-EMGF1020 SVB-EMGF1030	E&M Installation - 2nd fix - G/F E&M Installation - Final fix - G/F	25 20% 21-Nov-19 25 5% 09-Dec-19													
SVB-EMGF1030 SVB-EMGF1050	E&M Installation - Final fix - G/F E&M Installation - CLPP HV Switch Room - G/F	12 0% 20-Dec-19													-
SVB-EMGF1050	Inspection & Handover to CLP	5 0% 20-Dec-19													-
SVB-EMGF1000	Installation by CLP - CLPP HV Switch Rcom - G/F	24 0% 13-Jan-20													8
SVB-EMGF1080	Wiring Inspection with CLP	2 0% 13-Feb-20										1			
SVB-EMGF1090	Power On Energization by CLP	0 0%										•			
SVB-EMGF1120	E&M Installation - Genset Room & Fuel Tank Rooms - G/F	40 35% 09-Nov-19										-			
SVB-EMGF1140	E&M Installation - Electrical Plant Rooms - G/F	40 20% 12-Nov-19													
SVB-EMGF1160	E&M Installation - MVAC Plant Rooms - G/F	40 35% 12-Nov-19										-			
SVB-EMGF1180	E&M Installation - FS Plant Rooms - G/F	40 35% 14-Nov-19													
		C.O	ITRACT NO. HY20)17/10						P 16	Date	Revision	Checke	d d	Approve
										2	0-Dec-19				
		NORTHERN TUNNE	L CONNECTION B		VVUF	KNS				+					
		THREE MONTH	Y PROGRAMME A	AS OF 20 Dec 20	019										
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	Activity	Duration	Duration % Start	Finish	Total										
		(Days)	Complete		Float	May	2018		Son	Oct N		oh Mar	Apr Ma		019
/B-EMGF1200	E&M Installation - PD Plant Rooms - G/F	40	5% 02-Dec-19 A			vicy J		- Trug	loch					Jun	1 30
EMGF1220	E&M Installation - Elv Plant Rooms - G/F	48	5% 02-Dec-19 A												
			· · · · · · · · · · · · · · · · · · ·												
010	E&M Installation - 1st fix - 1/F	25	25% 31-Oct-19 A												
20	E&M Installation - 2nd fix - 1/F	25	5% 09-Dec-19 A												
030	E&M Installation - Final fix - 1/F	25	0% 14-Feb-20						÷		 				·
1050	E&M Installation - 11kV Switch & Tx Room 1 - 1/F	41	35% 14-Nov-19 A												
1F1110	E&M Installation - 11kV Switch & Tx Room 2 - 1/F	41	35% 14-Nov-19 A												
11F1170	E&M Installation - LV Switch Room - 1/F	41	35% 07-Dec-19 A												
M1F1180	Cable laying - from 1/F	16	0% 14-Jan-20												-
-EM1F1180	Sub-Circuit Power On - LV Switch Room - 1/F	0	0% 14-5411-20								 				÷
B-EM1F1220	E&M Installation - Electrical Plant Rooms - 1/F	50	15% 13-Nov-19 A			-									
															ł
B-EM1F1240	E&M Installation - MVAC Plant Rooms - 1/F	60	15% 13-Nov-19 A												ł
/B-EM1F1260	E&M Installation - FS Plant Rooms - 1/F	50	35% 20-Nov-19 A												ł
VB-EM1F1280	E&M Installation - ELV Plant Rooms - 1/F	50	0% 20-Dec-19						÷		 				
:		_													ł
SVB-EM2F1010	E&M Installation - 1st fix - 2/F	25	25% 31-Oct-19 A												ł
SVB-EM2F1020	E&M Installation - 2nd fix - 2/F	25	5% 09-Dec-19 A												ł
SVB-EM2F1030	E&M Installation - Final fix - 2/F	25	0% 14-Feb-20												ł
SVB-EM2F1060	E&M Installation - Electrical Plant Rooms - 2/F	40	10% 13-Nov-19 A												1
SVB-EM2F1080	E&M Installation - MVAC Plant Rooms - 2/F	40	35% 31-Oct-19 A												-
SVB-EM2F1100	E&M Installation - FS Plant Rooms - 2/F	40	35% 20-Nov-19 A			-				i					-
SVB-EM2F1120	E&M Installation - PD Plant Rooms - 2/F	40	0% 20-Dec-19												-
Installation (L01 & L02)															
SVB-LF1010	Access to lift shaft and lift machine room	0	100% 11-Dec-19 A			-	-								
VB-LF1020	Lift & lift machine room installation	50	50% 11-Dec-19 A								 				-
VB-LF1030	Testing & commissioning	13	0% 22-Feb-20												
SVB-LF1040	Final adjustment, Submission of Form LE5 & EMSD processing	12	0% 09-Mar-20												1
SVB-LF1050	Issuance of lift use permit	0	0%				-								-
sting & Commissioning		Ŭ								-					-
SVB-TC1000	T&C for Subcircuit Power On	6	0% 15-Feb-20						·		 				ł
SVB-TC1010	T&C for DG Licence	4	0% 15+Feb-20												i
SVB-TC1020	T&C for TVF	25	0% 134 eb-20				1								-
VB-TC1020	Equipment Start-up T&C for FSI	6	0% 22-Feb-20												-
SVB-TC1030 SVB-TC1033		18	0% 18-Feb-20												ł
	Individual E&M System T&C for FSI	6	0% 25-Feb-20 0% 17-Mar-20						·		 				-
SVB-TC1035	Intergrated T&C for FSI														
SVB-TC1040	Non-Essential T&C	30	0% 24-Mar-20				1			-					
SVB-TC1050	KD6C Achieved	0	0%												
	Approach Roads at North Side														
oach Roads											 				
R120	Road Lighting Cabling	50	0% 20-Dec-19												
R130	Road Ligting Installation & Termination	50	0% 06-Jan-20							-					
R140	T&C & Miscellaneous Works for Statutory Inspection	12	0% 07-Mar-20												
R300	KD6A Achieved	0	0%												
el										-					
R265	Access Portions Va	0	0%								 				
7200 - 7300															
FNL-09CL5610	T&C & Miscellaneous Works for Statutory Inspection - CH 7300 to 7200	30	0% 15-Feb-20												į
NU-RL2000	Bracket fixing on side wall - CH7200 to 7300	4	0% 20-Dec-19				1								
TNU-RL2010	Lighting in the middle of tunnels - CH7200 to 7300	9	0% 27-Dec-19							1					
TNU-RL2020	FH/ HR pipe installation - CH7200 to 7300	4	0% 08-Jan-20								 				-
TNU-RL2030	Cabling Works on Brackets - CH7200 to 7300	4	0% 13-Jan-20												ł
TNU-RL2040	MSFD delivery in OHVD - CH7200 to 7300	4	0% 20-Dec-19				-								
TNU-RL2050	MSFD installation works in OHVD - CH7200 to 7300	4	0% 27-Dec-19				-			-					
TNU-RL2060	High level wiring works & remaining High level works in tunnel middle -	12	0% 17-Jan-20				-			-		1			
	CH7200 to 7300	12						1		-		8			
TNU-RL2070	Low level works - FS nicle module - CH7200 to 7300	4	0% 30-Jan-20								 				
TNU-RL2080	Low level works - FS nicle connection - CH7200 to 7300	4	0% 31-Jan-20			-									
NU-RL2090	Final connection to small powers - CH7200 to 7300	4	0% 05-Feb-20												
FNU-RL2100	Cladding works - CH7200 to 7300	5	0% 10-Feb-20				-	-		-					
1 N U - R I / 1 U U															

NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS

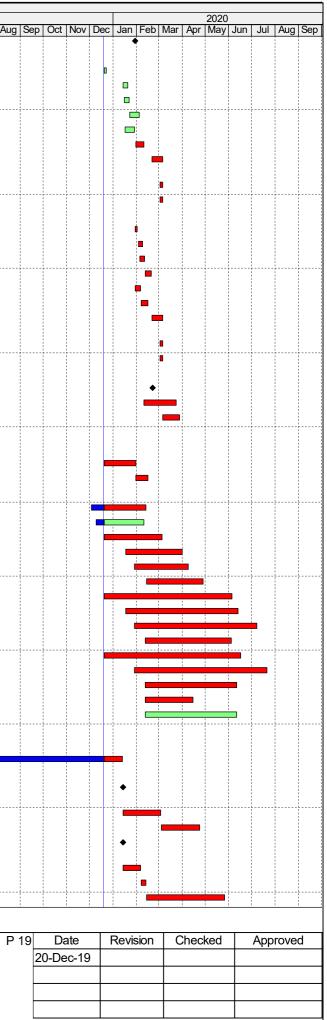


)	Activity		Duration % Start	Finish Total													
		(Days)	Complete	Float	201 May Jun	8 Jul Aua Se	p Oct N	ov Dec Ja	n Feb Mar	Apr May	2019 Jun Jul	Aug Sep	Oct Nov E	Dec Jan I	Feb Mar /	2020 Apr May Ju	un Jul Ai
Key Date 10 - FSD Building Stru	ucture & E&M Works				, can											<u>, , , , , , , , , , , , , , , , , , , </u>	
ABWF Works																	
AFSD1010	Door and Window Frames	19	52% 21-Oct-19 A											-			
AFSD1020	ABWF Works to Plant Rooms G/F	56	90% 10-Sep-19 A											-			
AFSD1021	ABWF Works to Plant Rooms 1/F	56	90% 21-Oct-19 A											-			
AFSD1030	ABWF Works to Office and Corridors G/F	124	90% 10-Sep-19 A				· · · · ·				· · · · · · · · · · · · · · · · · · ·						
AFSD1031	ABWF Works to Office and Corridors 1/F	124	90% 21-Oct-19 A														
AFSD1040	ABWF Works to Toilets G/F	136	90% 10-Sep-19 A														
AFSD1050	Waterproofing and Roofing	52	100% 21-Oct-19 A												_		
AFSD1060	External Cladding and Wall Plastering	101	60% 02-Oct-19 A												-		
E&M Works													·				
Installation																	
G/F FSDB-EMGF1010	E&M Installation - 1st fix - G/F	40	40% 04-Nov-19 A														
		10															
FSDB-EMGF1020	E&M Installation - 2nd fix - G/F	40	5% 02-Dec-19 A										-	= =	-		
																_	
FSDB-EMGF1030	E&M Installation - Final fix - G/F	30	0% 09-Mar-20								·		·				
FSDB-EMGF1040	ABWF Works ready for E&M Mobilization to CLP TX Room - G/F	0	0% 20-Dec-19											T			
FSDB-EMGF1050	E&M Installation - CLP Tx Room - G/F	18	80% 04-Nov-19 A														
FSDB-EMGF1060	Inspection & Handover to CLP	6	0% 24-Dec-19											-			
FSDB-EMGF1070	-	82	0% 03-Jan-20													•	
FSDB-EMGF1120	E&M Installation - Electrical Plant Rooms - G/F	60	15% 18-Nov-19 A										-	-	-		
FSDB-EMGF1140	E&M Installation - FS Plant Rooms - G/F	50	15% 18-Nov-19 A														
F3DD-EIVIGF1140	Eavi Installation - FS Flant Rooms - G/F	50	13% TO-NOV-19A												-		
FSDB-EMGF1150	ABWF Works ready for E&M Mobilization to Elv Plant Rooms - G/F	0	100% 02-Dec-19 A										•				
FSDB-EMGF1160	E&M Installation - Elv Plant Rooms - G/F	50	5% 02-Dec-19 A											-	-		
1/F																	
FSDB-EM1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0% 24-Dec-19											•			
FSDB-EM1F1010	E&M Installation - 1st fix - 1/F	40	0% 24-Dec-19											····			
FSDB-EM1F1020	E&M Installation - 2nd fix - 1/F	39	0% 15-Feb-20														
	ABWF Works ready for E&M Mobilization to Emergency Generator & Fuel	0	0% 24-Dec-19											•			
	Tank Rooms - 1/F																
FSDB-EM1F1050	E&M Installation - Emergency Generator & Fuel Tank Rooms - 1/F	60	0% 24-Dec-19												-		
			01/ 04 5 40														
FSDB-EM1F1060	ABWF Works ready for E&M Mobilization to LV Switch Room - 1/F	0	0% 24-Dec-19														
FSDB-EM1F1070	E&M Installation - LV Switch Room - 1/F	55	0% 27-Dec-19														
FSDB-EM1F1080	Cable laying - LV Switch Room - from 1/F	41	0% 05-Mar-20													_	
FSDB-EM1F1110	ABWF Works ready for E&M Mobilization to FS Plant Rooms - 1/F	0	0% 24-Dec-19											•			
		_															
FSDB-EM1F1120	E&M Installation - FS Plant Rooms - 1/F	60	0% 24-Dec-19												-		
FSDB-EM1F1130	ABWF Works ready for E&M Mobilization to PD Plant Rooms - 1/F	0	0% 24-Dec-19											•			
	EVM Installation DD Diant Dearse 4/E	60	00/ 00 1== 00														
FSDB-EM1F1140	E&M Installation - PD Plant Rooms - 1/F	60	0% 02-Jan-20														
Roof FSDB-EMRF1000	ABWF Works ready for E&M Mobilization to Roof	0	0% 20-Dec-19											•			
	E&M Installation - 1st fix - Roof	20	0% 20-Dec-19	—													
FSDB-EMRF1020	E&M Installation - 2nd fix - Roof	20	0% 20-Dec-19	—										-			
	E&M Installation - Final fix - Roof	20	0% 12-Feb-20														
Key Date 7A - E&M Works for A																	
Approach Roads				-													
EAR170	Access Portions VIa	0	0% 14-Mar-20												•		
EAR175	Access Portions Vic	0	0% 02-Mar-20	I											•		
EAR180	Road Lighting Cabling (VIa)	18	0% 02 Mar 20														
EAR185	Road Lighting Cabling (Via)	15	0% 02-Mar-20												_		
EAR190	Road Lighting Cabining (Vio)	18	0% 19-Mar-20	I													
Tunnel	.gg																
EAR160	Access Portions IVb	0	0% 20-Dec-19											•			
		Ť										P 18	Date	Revisio		ecked	
			CONTR	ACT NO. HY2017/10													Approv
		NOR		ONINE OTION DUIL DUIL								2	0-Dec-19	<u> </u>		\longrightarrow	
		NORT	HERN IUNNEL C	ONNECTION BUILDING	∍ E&M	WORKS	5							<u> </u>			
		TH	HKEE MONTHLY P	PROGRAMME AS OF 20	Dec 2	019											

	Activity	Duration	Duration % Start	ľ
		(Days)	Complete	
EAR165	Access Portions IVc		0% 30-Jan-20	
EAR105 CH2500 - 2115	Access Pontions IVC	0	0% 30-Jan-20	
TNU-RL3000	Bracket fixing on side wall - CH2500 to 2115	3	0% 20-Dec-19	
TNU-RL3000	Lighting in the middle of tunnels - CH2500 to 2115	6	0% 20-Dec-19	
TNU-RL3020	FH/ HR pipe installation - CH2500 to 2115	6	0% 14-Jan-20	
TNU-RL3030	Cabling Works on Brackets - CH2500 to 2115	8	0% 10-5an-20	
TNU-RL3040	MSFD delivery in OHVD - CH2500 to 2115	7	0% 23-5an-20	
TNU-RL3050	MSFD delivery in OHVD - CH2500 to 2115 MSFD installation works in OHVD - CH2500 to 2115	8	0% 17-5an-20	
TNU-RL3060	High level wiring works & remaining High level works in tunnel middle -	12	0% 31-5ali-20	
	CH2500 to 2115			
TNU-RL3070	Low level works - FS nicle module - CH2500 to 2115	4	0% 02-Mar-20	
TNU-RL3080	Low level works - FS nicle connection - CH2500 to 2115	4	0% 02-Mar-20	
CH2115 - 1800	Deschat frien en side well. OUO445 to 4000	0	00/ 00 1 00	
TNU-RL3240	Bracket fixing on side wall - CH2115 to 1800	3	0% 30-Jan-20	
TNU-RL3250	Lighting in the middle of tunnels - CH2115 to 1800	6	0% 03-Feb-20	
TNU-RL3260	FH/ HR pipe installation - CH2115 to 1800	6	0% 05-Feb-20	
TNU-RL3270	Cabling Works on Brackets - CH2115 to 1800	8	0% 12-Feb-20	
TNU-RL3275	MSFD delivery in OHVD - CH2115 to 1800	7	0% 30-Jan-20	
TNU-RL3280 TNU-RL3290	MSFD installation works in OHVD - CH2115 to 1800 High level wiring works & remaining High level works in tunnel middle -	8	0% 07-Feb-20 0% 21-Feb-20	
TNU-RL3300	CH2115 to 1800 Low level works - FS nicle module - CH2115 to 1800	4	0% 02-Mar-20	
TNU-RL3300	Low level works - FS high module - CH2115 to 1800	4	0% 02-Mar-20	
AC		7		
C1000	Permanent power available to tunnels from SVB	0	0% 22-Feb-20	
	T&C for Tunnel Lighting - CH 2500 to 1800	37	0% 10-Feb-20	
10TC1130 10TC1160	T&C for MSFD - CH 2500 to 1800	19	0% 06-Mar-20	
ate 9 - C&ED Building & E		10		
	awwond			
uilding Structure	Roof Slab	30	0% 20-Dec-19	
uilding Structure CED260	Roof Slab	30	0% 20-Dec-19	
uilding Structure CED260 CED270	Roof Slab Top Roof	30 14	0% 20-Dec-19 0% 31-Jan-20	
uilding Structure CED260 CED270 BWF Works	Top Roof	14	0% 31-Jan-20	
ilding Structure CED260 CED270 3WF Works ACED1000	Top Roof Blockwork Walls	14 54	0% 31-Jan-20 23% 04-Dec-19 A	
Lilding Structure CED260 CED270 3WF Works ACED1000 ACED1010	Top Roof Blockwork Walls Door and Window Frames	14 54 48	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A	
Lilding Structure CED260 CED270 3WF Works ACED1000 ACED1010 ACED1020	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F	14 54 48 60	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19	
CED260 CED270 BWF Works ACED1000 ACED1010 ACED1020 ACED1021	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F	14 54 48 60 60	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 18-Jan-20	
ilding Structure CED260 CED270 WF Works ACED1000 ACED1010 ACED1020 ACED1021 ACED1022	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F	14 54 48 60 60 60	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 18-Jan-20 0% 29-Jan-20	
ilding Structure CED260 CED270 3WF Works ACED1000 ACED1010 ACED1020 ACED1021 ACED1022 ACED1023	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F	14 54 48 60 60 60 60 60	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 18-Jan-20 0% 29-Jan-20 0% 14-Feb-20	
ACED1020 ACED1020 ACED1000 ACED1010 ACED1020 ACED1021 ACED1022 ACED1023 ACED1030	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F ABWF Works to Office and Corridors G/F	14 54 48 60 60 60 60 60 133	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 18-Jan-20 0% 29-Jan-20 0% 14-Feb-20 0% 20-Dec-19	
ilding Structure CED260 CED270 SWF Works ACED1000 ACED1010 ACED1020 ACED1021 ACED1022 ACED1023 ACED1030 ACED1031	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F ABWF Works to Office and Corridors G/F ABWF Works to Office and Corridors 1/F	14 54 48 60 60 60 60 133 118	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 18-Jan-20 0% 29-Jan-20 0% 14-Feb-20 0% 20-Dec-19 0% 14-Fab-20 0% 20-Dec-19 0% 14-Fab-20 0% 20-Dec-19 0% 20-Dec-19 0% 20-Dec-19	
uilding Structure CED260 CED270 BWF Works ACED1000 ACED1010 ACED1020 ACED1021 ACED1022 ACED1023 ACED1031 ACED1032	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F ABWF Works to Office and Corridors G/F ABWF Works to Office and Corridors 1/F ABWF Works to Office and Corridors 2/F	14 54 48 60 60 60 60 133 118 130	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 18-Jan-20 0% 14-Feb-20 0% 20-Dec-19 0% 14-Feb-20 0% 20-Dec-19 0% 20-Jan-20 0% 20-Jan-20 0% 20-Dec-19 0% 20-Jan-20	
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Aced 1000 Aced 1002 Aced 1003 Aced 1032 Aced 1033 Aced 1040 Aced 1040	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F ABWF Works to Office and Corridors G/F ABWF Works to Office and Corridors 1/F ABWF Works to Office and Corridors 2/F ABWF Works to Office and Corridors 3/F ABWF Works to Office and Corridors 3/F ABWF Works to Toilets G/F ABWF Works to Toilets G/F ABWF Works to Toilets 2/F ABWF Works to Toilets 3/F	14 54 48 60 60 60 60 133 118 130 92 142 142 142 98	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 0% 20-Dec-19 0% 29-Jan-20 0% 20-Dec-19 0% 20-Dec-19 0% 20-Dec-19 0% 20-Dec-19 0% 20-Dec-19 0% 29-Jan-20	
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Building Structure CED260 CED270 IBWF Works ACED1000 ACED1010 ACED1020 ACED1021 ACED1022 ACED1033 ACED1031 ACED1032 ACED1041 ACED1040 ACED1050 ACED1060 Istallation C&EDB-GF1000	Top Roof Blockwork Walls Door and Window Frames ABWF Works to Plant Rooms G/F ABWF Works to Plant Rooms 1/F ABWF Works to Plant Rooms 2/F ABWF Works to Plant Rooms 3/F ABWF Works to Office and Corridors G/F ABWF Works to Office and Corridors 1/F ABWF Works to Office and Corridors 2/F ABWF Works to Office and Corridors 3/F ABWF Works to Toilete and Corridors 3/F ABWF Works to Toilets G/F ABWF Works to Toilets 3/F Waterproofing and Roofing External Cladding and Wall Plastering E&M cast-in Installation ABWF Works ready for E&M Mobilization to General Areas - G/F	14 54 48 60 60 60 133 118 130 92 142 142 98 50 97 97 90	0% 31-Jan-20 23% 04-Dec-19 A 20% 10-Dec-19 A 0% 20-Dec-19 A 0% 20-Dec-19 A 0% 20-Dec-19 0% 29-Jan-20 0% 20-Dec-19 0% 20-Dec-19 0% 29-Jan-20 0% 29-Jan-20 0% 29-Jan-20 0% 29-Jan-20 0% 29-Jan-20 0% 12-Feb-20 0% 12-Feb-20 0% 12-Feb-20 0% 12-Feb-20 0% 14-Jan-20	
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CONTRACT NO. HY2017/10

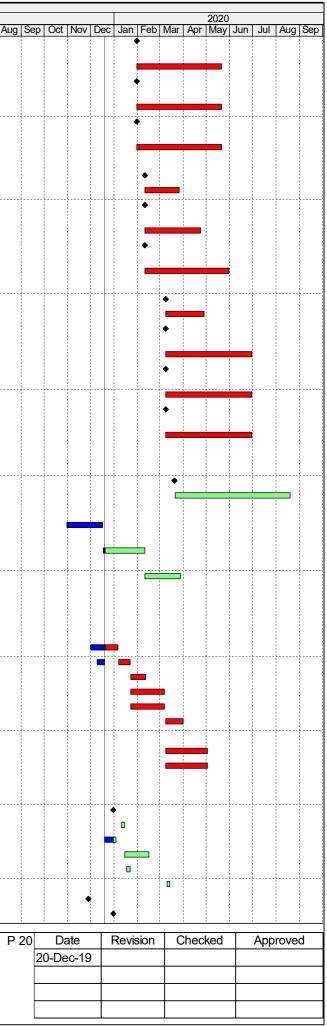
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS



	Activity	Duration	Duration % Start	Finish	Total										—
		(Days)	Complete		Float		2018								2019
C&EDB-GF1110	ABWF Works ready for E&M Mobilization to Generator & Fuel Tank	0	0% 31-Jan-20			May Ju	n Jul	Aug Sep	Oct	Nov Dec	c Jan	⊦eb Mar	Apr M	ay Jun	1 J
Callob-Gi III0	Rooms - G/F	0	070 51-541-20												
C&EDB-GF1120	E&M Installation - Generator & Fuel Tank Rooms - G/F	90	0% 31-Jan-20				-								
C&EDB-GF1130	ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F	0	0% 31-Jan-20				1 1 1 1					1 1 1 1 1			
C&EDB-GF1140	E&M Installation - FS Plant Rooms - G/F	00	0% 21 Jan 20				-			-					
C&EDB-GF1140 C&EDB-GF1150	ABWF Works ready for E&M Mobilization to Elv Plant Rooms - G/F	90	0% 31-Jan-20 0% 31-Jan-20						· · · · · · · ·				·		
CAEDD-GF 1150	Above works ready for Early wobilization to Elv Plant Rooms - G/P	0	0% 51-Jan-20									8			
C&EDB-GF1160	E&M Installation - Elv Plant Rooms - G/F	90	0% 31-Jan-20			-	-					1			
1/F															
C&EDB-1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0% 10-Feb-20									8			
C&EDB-1F1010	E&M Installation - 1st fix - 1/F	40	0% 10-Feb-20												
C&EDB-1F1040	ABWF Works ready for E&M Mobilization to LV Switch Room - 1/F	0	0% 10-Feb-20									-			
C&EDB-1F1050	E&M Installation - LV Switch Room - 1/F	60	0% 10-Feb-20												
C&EDB-1F1080	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 1/F	0	0% 104 cb-20				-								
			070 101 00 20												
C&EDB-1F1090	E&M Installation - Electrical Plant Rooms - 1/F	90	0% 10-Feb-20									8			
2/F															
C&EDB-2F1000	ABWF Works ready for E&M Mobilization to General Areas - 2/F	0	0% 09-Mar-20												
C&EDB-2F1010	E&M Installation - 1st fix - 2/F	40	0% 09-Mar-20												
C&EDB-2F1050	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 2/F	0	0% 09-Mar-20												
C&EDB-2F1060	E&M Installation - Electrical Plant Rooms - 2/F	90	0% 09-Mar-20				1					2 2 2 2			
C&EDB-2F1070	ABWF Works ready for E&M Mobilization to FS Plant Rooms - 2/F	0	0% 09-Mar-20												
	,	_					-								
C&EDB-2F1080	E&M Installation - FS Plant Rooms - 2/F	90	0% 09-Mar-20												
C&EDB-2F1090	ABWF Works ready for E&M Mobilization to Elv Plant Rooms - 2/F	0	0% 09-Mar-20												
C&EDB-2F1100	E&M Installation - Elv Plant Rooms - 2/F	90	0% 09-Mar-20												
Key Date 11 - Landscape Soft		50	070 05-101-20									1			
Landscape Soft Works							-								
SL110	Works Substantially Completed at North Side (KD6A)	0	0%												
SL120	Landscape Soft Works at North Side (wet season)	122	0% 21-Mar-20												
Trees Protection															
SL199	Protection Existing Trees & Submit Report with Photographic Record	41	100% 31-Oct-19 A									8			
	No.10														
SL200	Protection Existing Trees & Submit Report with Photographic Record No.11	41	5% 18-Dec-19 A												
SL201	Protection Existing Trees & Submit Report with Photographic Record	41	0% 10-Feb-20						· • · · · · •				+		
02201	No.12		0.0 102 20												
Key Date 8 - All Works for Tun	nnel Comissioning & Opening														
Petrol Filling Station												1			
Structure															
PS120	Excavation	20	40% 01-Dec-19 A												
PS130	Footing	20	30% 10-Dec-19 A												
PS140	Petrol Filling Station Roof	14	0% 23-Jan-20									4 8 8 8			
PS150	Structure for Petrol Filling Station	36	0% 23-Jan-20												
PS160	Underground Fuel Tank Structure	36	0% 23-Jan-20									5 5 5 5			
PS170	Backfilling	20	0% 09-Mar-20												
E&M Works		40	00/ 00 Мс-00									8			
EPS110	Miscellaneous ABWF Works	42	0% 09-Mar-20												
EPS120	Fuel Tank/Fuel Pipe System Installation	42	0% 09-Mar-20			-	-					8			
Statutory Inspections and app												1			
Administration Building ADB-SI1010	Submit WWO46 Part IV for PD	0	0% 31-Dec-19						· · · · · · · · · ·						
ADB-SI1010	WSD inspection of Plumbing Installation (PL)	4	0% 31-Dec-19 0% 10-Jan-20												
ADB-SI1030	WSD inspection of Plumbing Installation (PL) WSD inspection of Plumbing Installation (FS)	4	50% 20-Dec-19 A									- 2 1			
ADB-SI1040	Water Samples Test	24	0% 15-Jan-20									-			
ADB-SI1050	Obtain Water Certificate and water supply connection - FS	4	0% 15-Jan-20									8			
ADB-SI1000 ADB-SI1070	Obtain Water Certificate and water supply connection - PL	4	0% 17-5an-20												
	Obtain DG Licence	0	100%				-								
ADB-SITTOD		5				1	:		1 1	:	- E - E	:	: :	:	1
ADB-SI1100 ADB-SI1110	Submit CT2B	0	0% 31-Dec-19												

CONTRACT NO. HY2017/10

NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS



)	Activity	Duration	Duration % Start	Finish	Total				·								
		(Days)	Complete		Float	2018	Aug So	n Oct	Nov Dec Jan Feb Mar Apr N	2019 Aavu lup lu	n Oct N			eh Mar	2020		a Sen
ADB-SI1120	EMSD examines site acceptance report and acceptance	36	0% 31-Dec-19				Aug Joe	ploci							ηρι Ινιαγ		<u>a loch</u>
ADB-SI1130	Submit WWO46 part IV for CT plumbing works	0	0% 15-Feb-20										•	•			
ADB-SI1140	WSD inspection and water connection for CT plumbing works	6	0% 29-Feb-20								 			•			
ADB-SI1150	Final Submission of Form FSI 314 / 501 to FSD	0	100%									•					
ADB-SI1160	FSD Inspection	42	0% 19-Feb-20												1		
Maintenance Depot																	
MD-SI1030	Obtain DG Licence	0	100%				8					•					
MD-SI1040	Submit WWO46 Part IV for PD	0	0% 07-Jan-20										•				
MD-SI1060	WSD inspection of Plumbing Installation (PL)	4	0% 16-Jan-20														
MD-SI1070	WSD inspection of Plumbing Installation (FS)	4	50% 20-Dec-19 A														
MD-SI1080	Water Samples Test	24	0% 21-Jan-20														
MD-SI1090	Obtain Water Certificate and water supply connection - FS	4	0% 23-Jan-20								 						
MD-SI1100	Obtain Water Certificate and water supply connection - PL	4	0% 16-Mar-20											٥			
MD-SI1110	Final Submission of Form FSI 314 / 501 to FSD	0	100%				8					•					
MD-SI1120	FSD Inspection	42	0% 04-Feb-20				8										
North Ventilation Building			10001														
NVB-SI1030	Obtain DG Licence	0	100%								 						
NVB-SI1090	Submit WWO46 Part IV for PD	0	0% 03-Jan-20										•				
NVB-SI1110	WSD inspection of Plumbing Installation (PL)	4	0% 13-Jan-20														
NVB-SI1120	WSD inspection of Plumbing Installation (FS)	24	50% 20-Dec-19 A 0% 17-Jan-20														
NVB-SI1130 NVB-SI1135	Water Samples Test Obtain Water Certificate and water supply connection - FS	24	0% 17-Jan-20 0% 20-Jan-20											-			
NVB-SI1135	Obtain Water Certificate and water supply connection - PS Obtain Water Certificate and water supply connection - PL	4	0% 03-Mar-20								 						
NVB-SI2000	Final Submission of Form FSI 314 / 501 to FSD	0	100%									•		-			
NVB-SI2000	FSD Inspection	42	0% 07-Mar-20														
Underpass & Plant Room	•	72	070 07 Mai 20														
VUP-SI1060	Submit WWO46 Part IV for FS	0	0% 05-Feb-20				8						•				
VUP-SI1080	WSD inspection of Plumbing Installation (FS)	4	0% 14-Feb-20								 		·	•••••			
VUP-SI1095	Obtain Water Certificate and water supply connection - FS	4	0% 04-Mar-20											٥			
Toll Control Building & To																	
TCB-SI1020	DG Inspection by FSD	36	0% 10-Feb-20				-										
TCB-SI2000	Submit WWO46 Part IV for PD	0	0% 21-Mar-20											•			
TCB-SI2010	Submit WWO46 Part IV for FS	0	0% 21-Mar-20								 			•			
TCB-SI3000	Submit CT2B	0	0% 15-Feb-20										•	•			
TCB-SI3010	EMSD examines site acceptance report and acceptance	36	0% 15-Feb-20														
South Ventilation Building	ing																
SVB-SI1010	DG Submission & Vent/425 to FSD	0	0%											•			
SVB-SI1020	DG Inspection by FSD	24	0% 27-Feb-20														
SVB-SI1090	Submit WWO46 Part IV for PD	0	0% 12-Feb-20										•				
SVB-SI1100		0											•				
		4															
		4									 						
							8							1 1			
														1 1			
SVB-SI2000	Final Submission of Form FSI 314 / 501 to FSD	0	0%											•			
SVB-SI1090		0															
						NO. HY2017/10						20-Dec	20-Dec-19	20-Dec-19	20-Dec-19	20-Dec-19	20-Dec-19
		NOR		ONNECTION BL	ŗ	III DING E&	III DING E&M W/	III DING E&M WORKS	III DING F&M WORKS	III DING F&M WORKS							JILDING E&M WORKS
			I TERN I UNNEL C	0111201101120		1/	VI VV V										
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			HREE MONTHLY F					,									

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No. CE35/2011 EP Baseline Environmental Monitoring for Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chep Lap Kok Link – Investigation. Updated EM&A Manual for Tuen Mun-Chek Lap Kok Link)

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	
Air Quality 4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.		Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		1
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	construction period	Contractor	TMEIA Avoid dust generation		Y		1
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	, 0	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.		Contractor	TMEIA Avoid dust generation		Y		4
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.		Contractor	TMEIA Avoid dust		Y		1

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement		plementa Stages		Status *
						D	C	0	
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		×
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		\$
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs/ throughout construction periood	Contractor	EM&A Manual		Y		N/A (Results adopted from published EM&A data of Contract No. HY.2012/08)
WATER QUAL	ITY (LAND V	WORKS)					1	1	
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	construction period	Contractor	TM-EIAO		Y		×
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.10	-	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.		Contractor	TM-EIAO		Y		1
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		1
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout	Contractor	TM-EIAO		Y		×
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		1

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	С	0	
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.		Contractor	TM-EIAO		Y		*
6.10	5.8	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.	construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	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.	construction period	Contractor	TM-EIAO		Y		1
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	0,	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		4
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		✓
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages		Status *
6.10	Reference	All fuel tanks and chemical storage areas should be provided with	All areas / throughout	Contractor	TM-EIAO	D	C Y	0	<>
6.10	-	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.	construction period	Contractor			I		~
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	✓
6.10	Section 11	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓
WASTE 12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		\checkmark
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.		Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		~
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		•
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		1

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	, 0	Contractor	TMEIA		Y		√
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		1
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		√
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		1
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	construction period	Contractor	TMEIA		Y		~
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.		Contractor	TMEIA		Y		~
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		1
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: <i>f</i> suitable for the substance to be held,		Contractor	TMEIA		Y		~

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Stages			Status *
	Reference					D	С	0	
		resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. <i>f</i> Clearly labelled and used solely for the storage of chemical wastes; <i>f</i> Enclosed with at least 3 sides; <i>f</i> Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; <i>f</i> Adequate ventilation; <i>f</i> Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and <i>f</i> Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on- site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.		Contractor	TMEIA		Y		✓

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Stages			Status *
	Reference					D	С	0	
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	construction period	Contractor	TMEIA		Y		<>
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		√
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.		Contractor	EM&A Manual		Y		✓
LANDSCAPE &	AND VISUAL 7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas (Tree protection measures will be detailed at Tree Removal Application Stage) (CM1)	during construction	Design Consultant/ Contractor	TMEIA	Υ	Y		N/A

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
	Reference					D	С	0	
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	during construction	Design Consultant/ Contractor	TMEIA	Υ	Y		N/A
10.9	7.6	· · · · · · · · · · · · · · · · · · ·	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	material (in earth tone) (CM4)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	0	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	5 , , , , , , , , , , , , , , , , , , ,	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Ŷ	Y		\checkmark

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Im	plementa Stages	tion	Status *
	Reference					D	С	0	
10.9	7.6		All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10)	during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be implemented by AFCD/HyD/L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be implemented by AFCD/HyD/L CSD
10.9	7.6		All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be implemented by HyD/LCSD
10.9	7.6	formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be implemented by HyD/LCSD
10.9	7.6	8	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y		n/a. To be implemented by HyD

* Remarks:

✓ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Contractor

Δ Deficiency of Mitigation Measures but rectified by Contractor

N/A Not Applicable in Reporting Period

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

Appendix D

Summary of Action and Limit Levels

Parameters	Action	Limit
4 Hour TSP Level in μg/m³	ASR1 = 213	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in µg /m ³	ASR1 = 331	500
	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D1Action and Limit Levels for 1-hour and 24-hour TSP

Table D2Actions in the Event of Landfill Gas being Detectedin Excavation / Confined Area

Parameter	Measurement	Action					
Oxygen	< 19%	- Ventilate to restore oxygen to > 19%					
	< 18%	- Stop work					
		- Evacuate personnel / prohibit entry					
		- Increase ventilation to restore to > 19%					
Methane	>10% LEL (>	- Prohibit hot work					
	0.5% v/v)	- Ventilate to restore methane to < 10% LEL					
	> 20% LEL	- Stop work					
	(>1% v/v)	- Evacuate personnel / prohibit entry					
		- Increase ventilation to restore to $< 10\%$					
Carbon Dioxide	> 0.5%	- Ventilate to restore oxygen to < 0.5%					
	> 1.5%	- Stop work					
		- Evacuate personnel / prohibit entry					
		- Increase ventilation to restore to $< 0.5\%$					

Appendix E

Event Action Plan

Appendix L1Event/Action Plan for Air Quality

	ACTION							
EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor				
Action Level								
1. Exceedance for one sample	 Identify the source. Inform the IEC and the ER. Repeat measurement to confirm finding. Increase monitoring frequency to daily. 	 Check monitoring data submitted by the ET. Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice Amend working methods if appropriate 				
2. Exceedance for two or more consecutive samples	 Identify the source. Inform the IEC and the ER. Repeat measurements to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the ER. If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by the ET. Check the Contractor's working method. Discuss with the ET and the Contractor on possible remedial measures. Advise the ER on the effectiveness of the proposed remedial measures. Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 				

	ACTION							
EVENT	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor				
Limit Level								
1. Exceedance for one sample	 Identify the source. Inform the ER and the DEP. Repeat measurement to confirm 	 Check monitoring data submitted by the ET. Check Contractor's working 	 Confirm receipt of notification of failure in writing. Notify the Contractor. 	 Take immediate action to avoid further exceedance Submit proposals for remedial 				
	 5. Aspear incustorement to commute finding. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 	 method. 3. Discuss with the ET and the Contractor on possible remedial measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. 5. Supervise implementation of 	3. Ensure remedial measures are properly implemented.	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	 Notify the IEC, the ER, the DEP and the Contractor. Identify the source. Repeat measurements to confirm findings. Increase monitoring frequency to daily. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken. Assess effectiveness of the Contractor's remedial actions 	 cuper visce implementation of remedial measures. Discuss amongst the ER, ET and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem stinot under control. Stop the relevant activity of work as determined by the ER until the exceedance is abated. 				

and keep the IEC, the DEP and the ER informed of the results.

8. If the exceedance stops, cease additional monitoring.

Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, SO - Supervising Office, DEP - Director of Environmental Protection

Appendix F

EM&A Monitoring Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec	07-De
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)		LFG Monitoring (a.m. & p.m.)		LFG Monitoring (a.m. & p.m.)
08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)		LFG Monitoring (a.m. & p.m.)		LFG Monitoring (a.m. & p.m.)
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)		LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)				LFG Monitoring (a.m. & p.m.)
29-Dec	30-Dec	31-Dec				
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)				

HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works Tentative Landfill Gas Monitoring Schedule (1 to 31 December 2019)

HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works Landfill Gas Monitoring Schedule (1 to 31 January 2020)

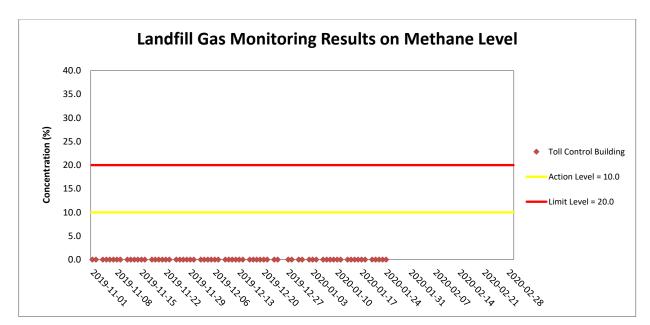
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Jan		03-Jan	04-Jan
				LFG Monitoring (a.m. &	LFG Monitoring (a.m.	LFG Monitoring (a.m.
				p.m.)	& p.m.)	& p.m.)
					. ,	
05-Jan		07-Jan			10-Jan	11-Jan
	LFG Monitoring (a.m. &	LFG Monitoring (a.m.	LFG Monitoring (a.m.			
	p.m.)	p.m.)	p.m.)	p.m.)	& p.m.)	& p.m.)
12-Jan					17-Jan	18-Jan
	LFG Monitoring (a.m. &	LFG Monitoring (a.m.	LFG Monitoring (a.m.			
	p.m.)	p.m.)	p.m.)	p.m.)	& p.m.)	& p.m.)
10 1-1	00.1	01.1	00.1	00 1	04 1-1-1	05 1.5
19-Jan						25-Jan
	- · ·		LFG Monitoring (a.m. &		• •	
	p.m.)	p.m.)	p.m.)	p.m.)	& p.m.)	
00 100	07. 1	00 100	00.100	00 100		
26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	
	1					

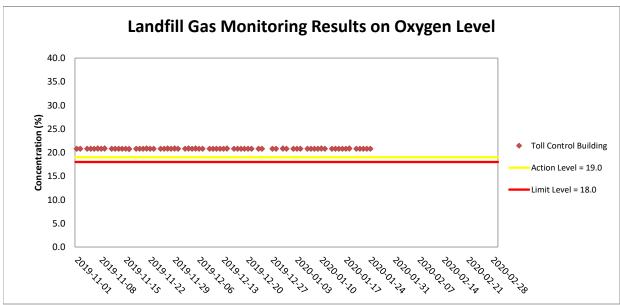
Remarks:

No landfill gas monitoring was scheduled since 25 January 2020 as no excavation work at Toll Control Building/Main Control Building was undertaken since 25 January 2020.

Appendix G

Landfill Gas Monitoring Results and Graphical Presentation

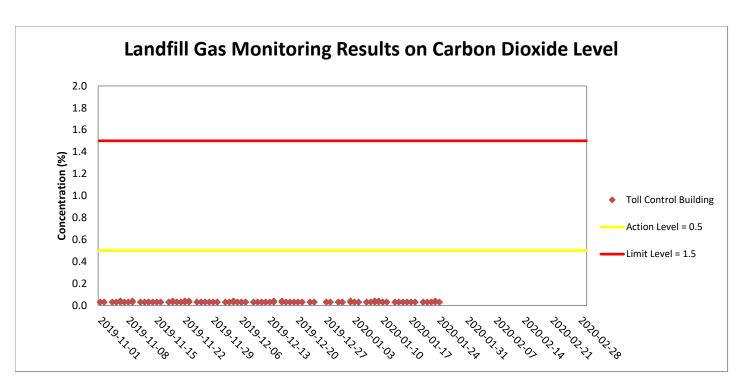




Weather condition within the reporting period was sunny to rainy

- Major construction works undertaken within the reporting period include
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building/Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Booth;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

No landfill gas monitoring was scheduled since 25 January 2020 as no excavation work at Toll Control Building/Main Control Building was undertaken since 25 January 2020.



Weather condition within the reporting period was sunny to rainy

Major construction works undertaken within the reporting period include

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Control Building/Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Toll Booth;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2; and
- Electrical and Mechanical Works at South Ventilation Building.

No landfill gas monitoring was scheduled since 25 January 2020 as no excavation work at Toll Control Building/Main Control Building was undertaken since 25 January 2020.

Appendix F

Monthly Summary of Waste Flow Table

Contract No. : HY/2017/10 Tuen Mun Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works Monthly Summary Waste Flow Table for 2019 (Year)

		Actual Quantities of Inert C&D Materials Generation						wastes Generation	Actu	al Quantities of R	ecyclables Genera	ation
Month\Material	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	2.089	-	0.150	-	1.939	-	-	74.680	47.620	-	0.077	-
Feb	2.474	0.008	0.345	-	2.129	-	-	67.230	-	-	0.056	-
Mar	0.079	0.060	-	-	0.079	-	-	73.690	23.310	-	-	-
Apr	0.013	-	-	-	0.013	-	-	56.730	18.020	-	0.056	-
Мау	-	-	-	-	-	-	-	62.240	-	-	0.056	-
Jun	0.011	0.004	-	-	0.011	-	-	118.070	-	-	0.077	-
SUB-TOTAL	4.666	0.072	0.495	0.000	4.171	0.000	0.000	452.640	88.950	0.000	0.322	0.000
Jul	0.058	0.019	-	-	0.058	-	-	148.880	-	-	0.070	-
Aug	0.192	0.073	-	-	0.192	-	-	177.240	-	-	-	-
Sep	0.177	0.015	-	-	0.177	-	-	196.740	-	-	0.063	-
Oct	0.200	-	-	-	0.200	-	-	265.560	-	-	0.056	-
Nov	0.510	0.119	-	-	0.510	-	-	305.880	-	-	0.063	-
Dec	0.489	0.042	-	-	0.489	-	-	276.850	-	-	-	-
TOTAL	6.292	0.340	0.495	0.000	5.797	0.000	0.000	1,823.790	88.950	0.000	0.574	0.000

Notes :

1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

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

3 - Broken concrete for recycling into aggregates.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Contract No. : HY/2017/10 Tuen Mun Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works Monthly Summary Waste Flow Table for 2020 (Year)

				Actual Quantiti	ies of Inert C&D Mate	erials Generation				Actual Quantities of C&	wastes Generation	Actu	al Quantities of R	ecyclables Genera	ation
Month\Material	Total Quantity Generated	Hard Rock and Large Broken Concrete		Reused in	n the Contract		Reused in other Projects	Disposed as Public Fills	Imported Fill	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000m ³)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.010	0.000				-	-	0.010	-	-	187.500	-	-	0.070	-
Feb	0.047	0.026				-	-	0.047	-	-	176.100	-	-	0.084	-
Mar	-	0.000				-	-	-	-	-	-	-	-	-	-
Apr	-	0.000				-	-	-	-	-	-	-	-	-	-
May	-	0.000				-	-	-	-	-	-	-	-	-	-
Jun	-	0.000				-	-	-	-	-	-	-	-	-	-
SUB-TOTAL	0.057	0.026	0.000	0.000	0.000	0.000	0.000	0.057	0.000	0.000	363.600	0.000	0.000	0.154	0.000
Jul	-	0.000				-	-	-	-	-	-	-	-	-	-
Aug	-	0.000				-	-	-	-	-	-	-	-	-	-
Sep	-	0.000				-	-	-	-	-	-	-	-	-	-
Oct	-	-				-	-	-	-	-	-	-	-	-	-
Nov	-	0.000				-	-	-	-	-	-	-	-	-	-
Dec	-	0.000				-	-	-	-	-	-	-	-	-	-
TOTAL	0.057	0.026	0.000	0.000	0.000	0.000	0.000	0.057	0.000	0.000	363.600	0.000	0.000	0.154	0.000

Notes :

1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

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

3 - Broken concrete for recycling into aggregates.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix I

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Appendix I1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting quarter	Total No. recorded since contract commencement
1-Hr TSP	Action	4	39
	Limit	1	8
24-Hr TSP	Action	0	2
	Limit	0	0
Landfill gas hazard m	onitoring		
Methane	Action	0	0
	Limit	0	0
 Oxygen 	Action	0	0
	Limit	0	0
Carbon Dioxide	Action	0	0
	Limit	0	0

Appendix I2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period		Cumulative Statistics	
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting quarter	0	0	0
Total No. received since contract commencement	1	0	0

Email message		Environmental Resources Management
То	Ramboll Hong Kong Limited (ENPO)	2507, 25/F One Harbourfront, 18 Tak Fung Street,
From	ERM- Hong Kong, Limited	Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works	E-mail: jasmine.ng@erm.com
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	30 December 2019	

Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Action Level Exceedance 0463091_1December2019_1hrTSP_Station ASR10 0463091_1December2019_1hrTSP_Station ASR5

Limit Level Exceedance 0463091_1December2019_1hrTSP_Station ASR1

Three (3) exceedances were recorded on 1 December 2019.

Regards,

Jamin

Dr Jasmine Ng Environmental Team Leader

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ERM-Hong Kong, Limited

Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

Notification of Exceedance

Log No.		Action Level Exceedance					
Log No.	0462						
		091_1December2019_1hrTSP_Station ASR10					
	0463	3091_1December2019_1hrTSP_Station ASR5					
	Limit Level Exceedance						
	0463091_1December2019_1hrTSP_Station ASR1						
	[Total No. of Exceedances = 3]						
Date		1 December 2019 (Measured)					
	6 Janua	ary 2020 (Results obtained from ENPO Website)					
Monitoring Station		ASR1, ASR5 and ASR10					
Parameter(s) with		1- hr TSP					
Exceedance(s)		1-10 101					
Action Levels	1-hr TSP (μg/m³)	ASR1 = 331					
		ASR5 = 340					
		ASR6 = 338					
		ASR10 = 335					
		AQMS1 = 337					
	24-hr TSP (μg/m³)	ASR1 = 213					
		ASR5 = 238					
		ASR6 = 238 ASR10 = 214					
		AQMS1 = 213					
Limit Levels	1-hr TSP (µg/m³)	500					
	$\frac{14 \text{ m} 15 \text{ (}\mu\text{g}/\text{ m}^{3}\text{)}}{24 \text{-hr TSP (}\mu\text{g}/\text{m}^{3}\text{)}}$	260					
Measured Levels	, e.e.,	et (Data are source from Contract No. HY/2012/08).					
Works Undertaken (at		his Contract on 1 December 2019.					
the time of monitoring		nio conduct on i December 2017.					
event)							
Possible Reason for	The exceedance is unlikely to	be due to the Contract, in view of the following:					
Action or Limit Level		is conducted on 1 December 2019.					
Exceedance(s)		er this Contract were mainly paved. The remaining unpaved area are					
Exceedunce(3)							
	•	s crane machines and generators or used as material storage area with					
		sheet. The exposed area are suppressed/covered. Dust are not					
	anticipated. During ET's	site inspection on 29 November 2019, the work area at Maintenance					
	Depot and Administration	Building were mainly paved. No dust generating activities/dust					
	emission was observed (re	fer to <i>Appendix A</i>).					
	, i i i i i i i i i i i i i i i i i i i						
	Based on the above, the exceed	dances are unlikely to be due to the Contract.					
Actions Taken / To Be	The Contractor has been remin	nded to ensure all dust suppression measures are implemented at the					
Taken		or for future trends in exceedances.					
Remarks	The monitoring results on 1 D	ecember 2019, locations of air quality monitoring stations, wind data					
	are attached.						
	1						

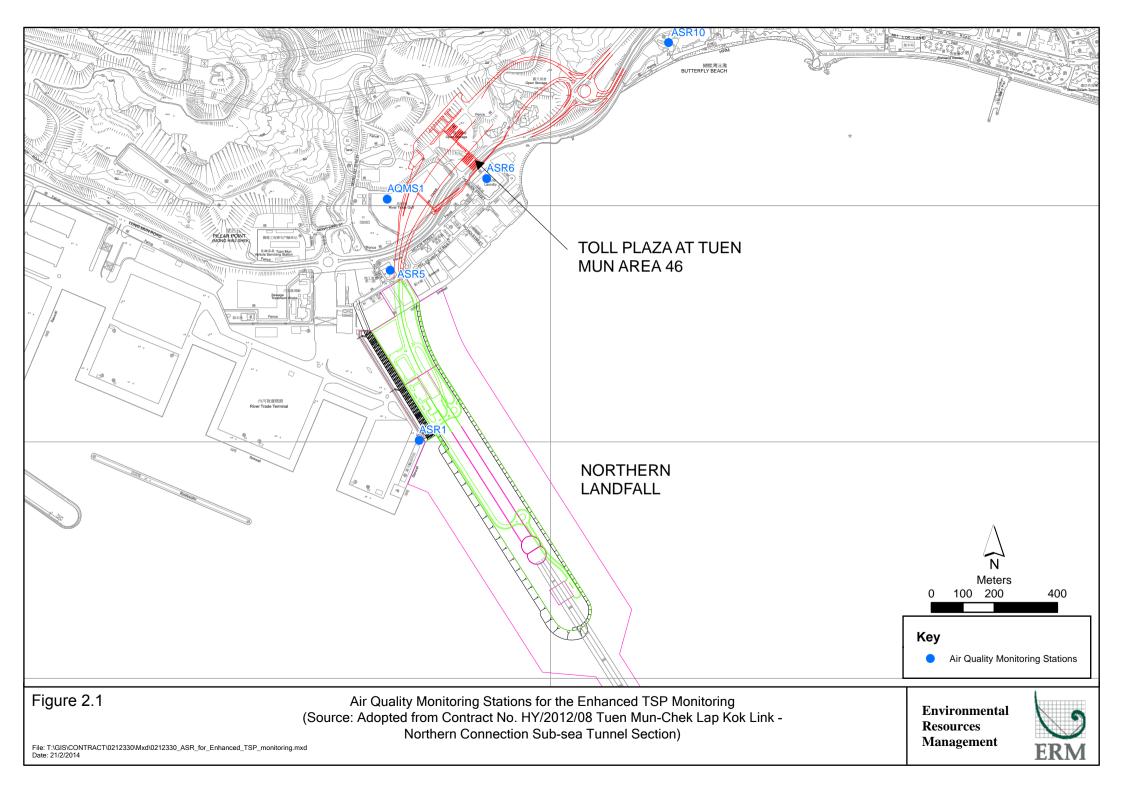
Results of Air Quality Monitoring

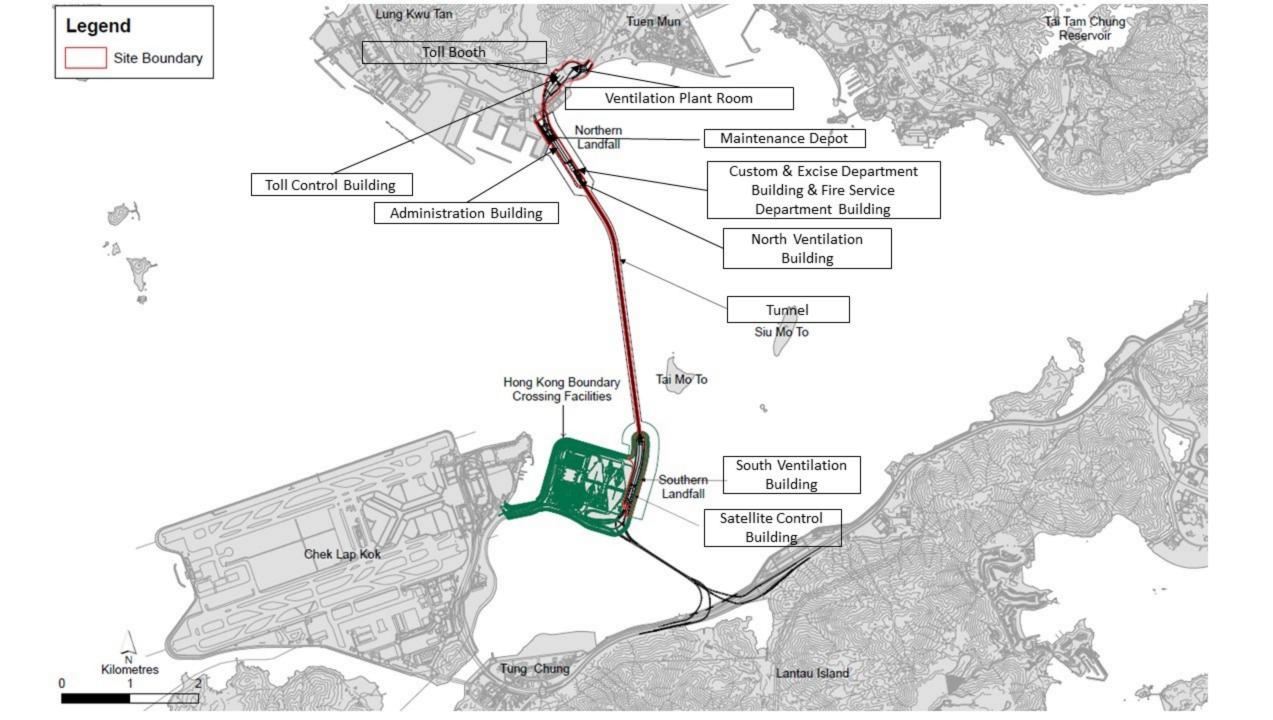
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-12-01	AQMS1	13:58:00	1-hour TSP	185	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	15:00:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	16:02:00	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	13:47:00	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	14:49:00	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	15:51:00	1-hour TSP	747	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	13:11:00	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	14:13:00	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	15:15:00	1-hour TSP	<mark>407</mark>	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	13:36:00	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	14:38:00	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	15:40:00	1-hour TSP	377	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	13:23:00	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	14:25:00	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	15:27:00	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	17:04:00	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	16:53:00	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	16:17:00	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	16:42:00	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	16:29:00	24-hour TSP	134	ug/m3

Note:

Indicates Exceedance of Action Level

	Met	eorological Data for Impact Monitoring i	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/12/01	1:00	1.3	304
19/12/01	2:00	1.3	319
19/12/01	3:00	0.9	303
19/12/01	4:00	0.4	290
19/12/01	5:00	0.4	339
19/12/01	6:00	0	-
19/12/01	7:00	0	-
19/12/01	8:00	1.3	28
19/12/01	9:00	1.3	28
19/12/01	10:00	1.8	207
19/12/01	11:00	1.3	210
19/12/01	12:00	1.8	309
19/12/01	13:00	2.7	273
19/12/01	14:00	2.2	288
19/12/01	15:00	1.8	272
19/12/01	16:00	0.9	302
19/12/01	17:00	0.9	319
19/12/01	18:00	0.9	288
19/12/01	19:00	1.3	289
19/12/01	20:00	1.3	315
19/12/01	21:00	2.2	309
19/12/01	22:00	1.8	311
19/12/01	23:00	1.3	318





Appendix A

ET site inspection on 29 November 2019

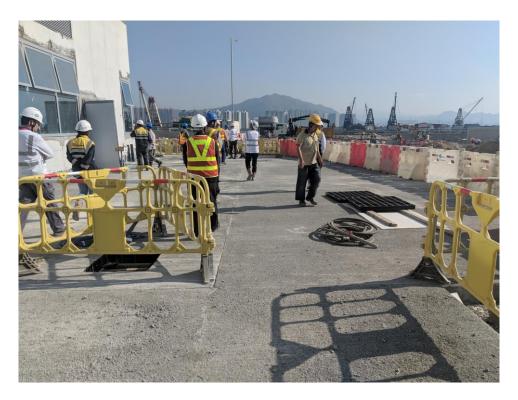


Photo 1 - Site condition at Maintenance Depot



Photo 2 - Site condition at Administration Building

Email message		Environmental Resources Management
То	Ramboll Hong Kong Limited (ENPO)	2507, 25/F One Harbourfront, 18 Tak Fung Street,
From	ERM- Hong Kong, Limited	Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660
Ref/Project number	Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works	E-mail: jasmine.ng@erm.com
Subject	Notification of Exceedance for Air Quality Impact Monitoring	ERM
Date	30 December 2019	

Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Action Level Exceedance 0463091_4December2019_1hrTSP_Station ASR1 0463091_4December2019_1hrTSP_Station ASR5

Two (2) exceedances were recorded on 4 December 2019.

Regards,

Jamin

Dr Jasmine Ng Environmental Team Leader

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ERM-Hong Kong, Limited

Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Air Quality Impact Monitoring

Notification of Exceedance

Log No.	Action Level Exceedance			
105110.				
	0463091_28November2019_1hrTSP_Station ASR1 0463091_28November2019_1hrTSP_Station ASR5			
	0100			
	[Total No. of Exceedances = 2]			
Date	4 December 2019 (Measured)			
	6 Janua	ary 2020 (Results obtained from ENPO Website)		
Monitoring Station		ASR1 and ASR5		
Parameter(s) with		1.1.TOD		
Exceedance(s)		1- hr TSP		
Action Levels	1-hr TSP (µg/m³)	ASR1 = 331 ASR5 = 340 ASR6 = 338		
		ASR10 = 335 AQMS1 = 337		
	24-hr TSP (μg/m³)	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213		
Limit Levels	1-hr TSP (μg/m ³)	500		
	24-hr TSP ($\mu g/m^3$)	260		
Measured Levels		et (Data are source from Contract No. HY/2012/08).		
Works Undertaken (at		Contract on 4 December 2019 included		
the time of monitoring	Electrical and Mechanical	l Works and Architectural Builder's Work and Finishes at		
event)	Administration Building;			
	Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance			
	 Depot; Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services 			
Possible Reason for	Department Building. The exceedances are unlikely to be due to the Contract, in view of the following:			
Action or Limit Level	 With reference to the recorded wind direction (ranged between 14° and 356°, blowing from a 			
Exceedance(s)	• With reference to the recorded wind direction (ranged between 14 and 356 , blowing from a northern direction) and wind speed (ranged between 2.7 and 3.1 m/s) when exceedances			
(.)				
	recorded, ASR5 is located upstream to the construction work area which is unlikely impacted by the construction activities conducted by this Contract on 4 December 2019. ASR1 is located			
	nearby to the construction works at Maintenance Depot and Administration Building.			
		· · · ·		
	However, the construction works at Maintenance Depot and Administration Building were			
	mainly Electrical and Mechanical Works and Architectural Builders Work and Finishes which are considered not major dust generating works (refer to <i>Appendix A</i>).			
	 No major dust generating activities i.e. excavation works was conducted on 4 December 2019. The construction area under this Contract were mainly paved. The remaining unpaved area are 			
	seated by machines such as crane machines and generators or used as material storage area with proper cover of tarpaulin sheet. The exposed area are suppressed/covered. Dust are not			
	anticipated.			
	Based on the above, the exceedances are unlikely to be due to the Contract.			

Actions Taken / To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 4 December 2019, locations of air quality monitoring stations and wind data are attached.	

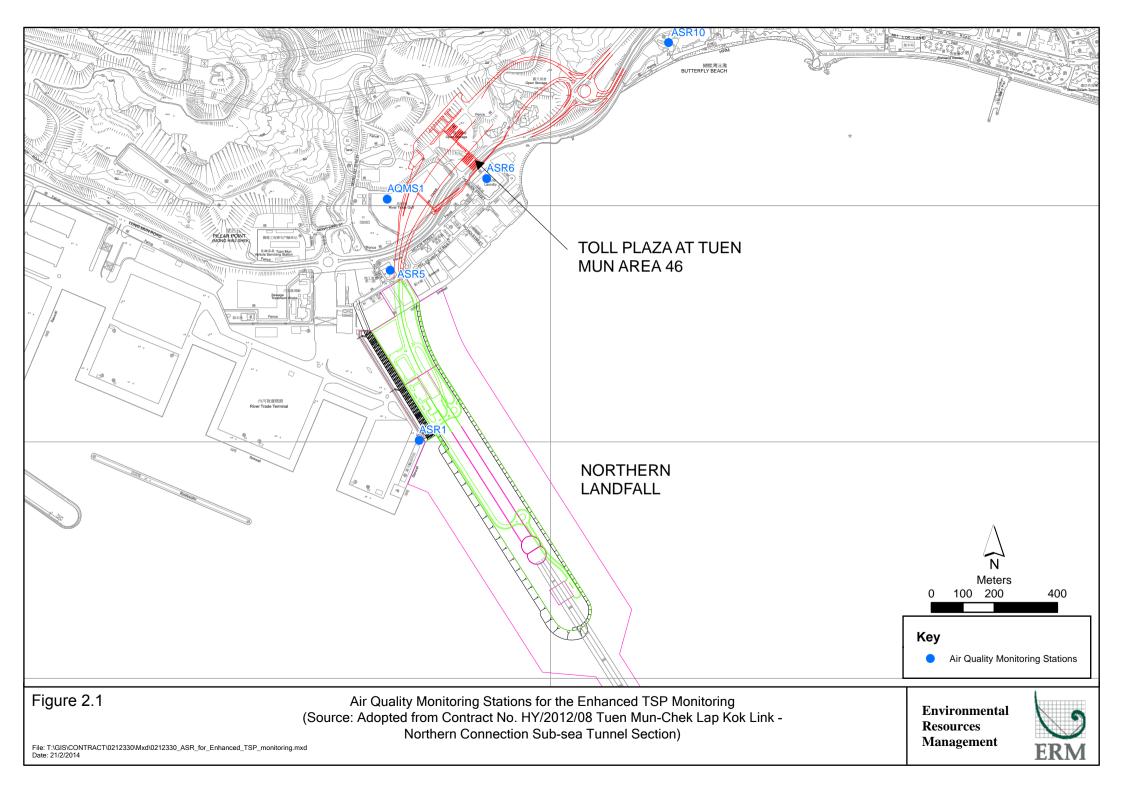
Results of Air Quality Monitoring

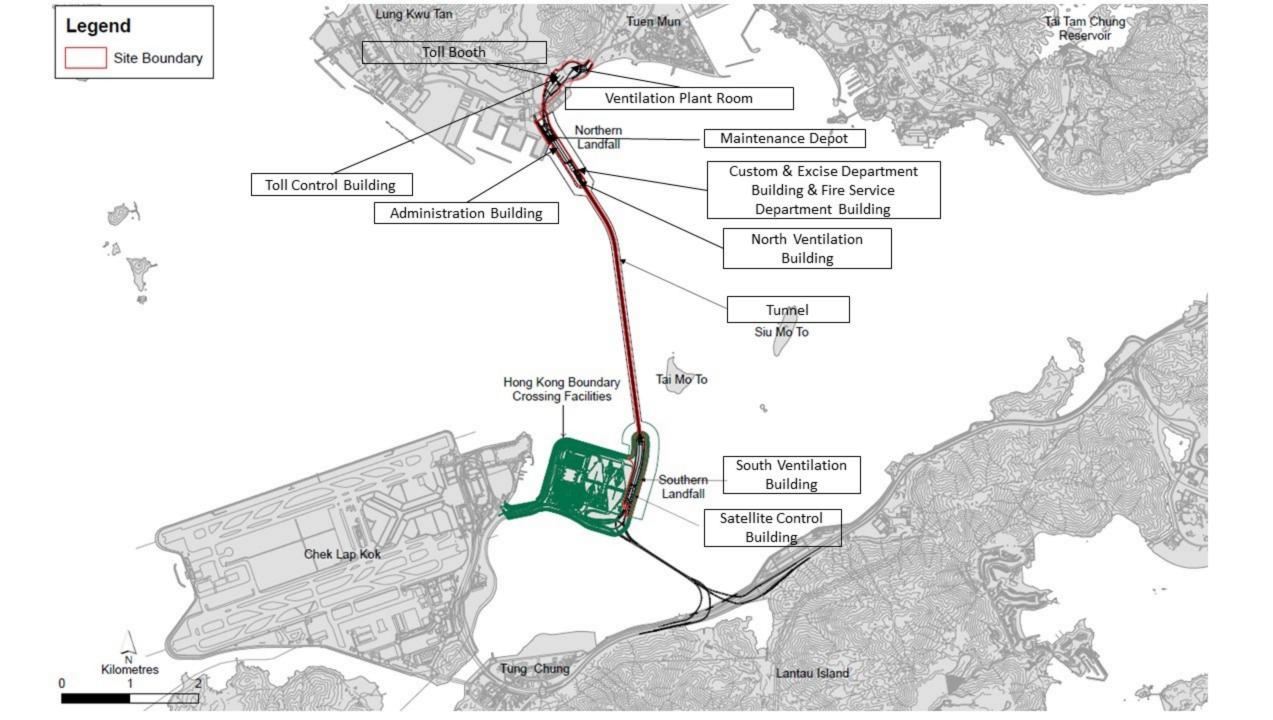
Project	Contract	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
TMCLKL	HY/2012/08	2019-12-04	AQMS1	8:44:00	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	9:51:00	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	10:53:00	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	8:37:00	1-hour TSP	<mark>366</mark>	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	9:39:00	1-hour TSP	220	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	10:41:00	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	8:02:00	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	9:04:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	10:06:00	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	8:25:00	1-hour TSP	380	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	9:27:00	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	10:29:00	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	8:13:00	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	9:15:00	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	10:17:00	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	11:55:00	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	11:43:00	24-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	11:08:00	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	11:31:00	24-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	11:19:00	24-hour TSP	118	ug/m3

Note:

Indicates Exceedance of Action Level

Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
19/12/04	0:00	1.8	328	
19/12/04	1:00	2.7	30	
19/12/04	2:00	2.2	25	
19/12/04	3:00	1.8	13	
19/12/04	4:00	1.8	19	
19/12/04	5:00	2.7	355	
19/12/04	6:00	1.8	339	
19/12/04	7:00	1.8	339	
19/12/04	8:00	3.1	356	
19/12/04	9:00	2.7	14	
19/12/04	10:00	2.2	28	
19/12/04	11:00	2.2	16	
19/12/04	12:00	1.8	31	
19/12/04	13:00	1.8	31	
19/12/04	14:00	1.3	306	
19/12/04	15:00	2.2	325	
19/12/04	16:00	1.8	345	
19/12/04	17:00	1.8	341	
19/12/04	18:00	0.9	306	
19/12/04	19:00	0.4	292	
19/12/04	20:00	0.4	311	
19/12/04	21:00	1.3	14	
19/12/04	22:00	1.3	56	
19/12/04	23:00	1.8	28	





Appendix A

Site Photo



Photo 1 - Construction works at Administration Building



Photo 2 - Construction works at Maintenance Depot



Photo 3 - Construction works at Fire Services Department Building