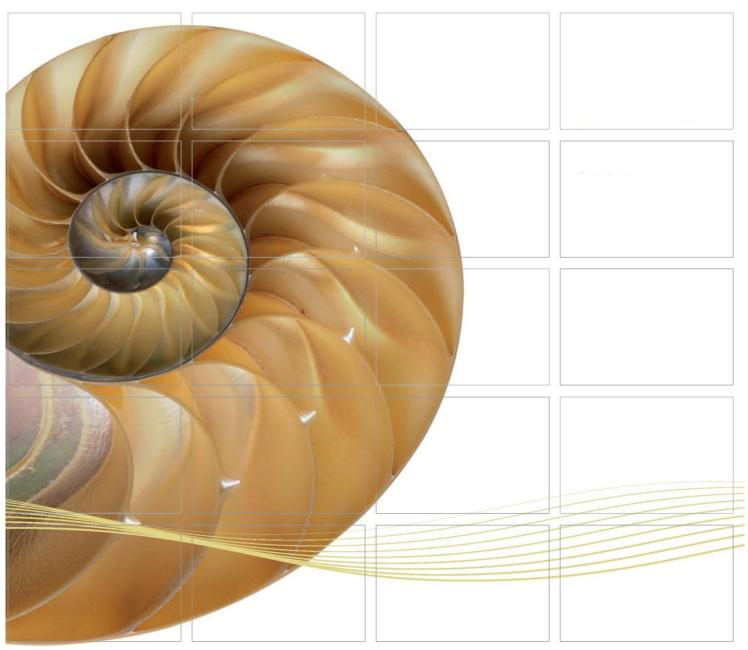
REPORT



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

Fourteenth Monthly EM&A Report

14 August 2019

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

Fourteenth Monthly EM&A Report

Document Code: 0463091_14th Monthly EM&A_20190814.doc

| Client: | | Project No | D: | | | |
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| Summary | | Date: | | | | |
| | | 14 Augu | ust 2019 | | | |
| | | Approved | by: | | | |
| This document presents the Fourteenth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works. | | | C.C.S | | | |
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| 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. | | Put | ernal | Certificate | 5 18001:2007 No. OHS 515956 BS 0001:2008 e No. FS 32515 | |





Ref.: HYDHZMBEEM00_0_7613L.19

14 August 2019

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 14th Monthly EM&A Report for July 2019

Reference is made to the Environmental Team's submission of the monthly EM&A report for July 2019 (ET's ref.: "0463091_14th Monthly EM&A_20190814.doc" dated 14 August 2019) certified by the ET Leader and provided to us via e-mail on 14 August 2019.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

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

Forthe and

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

c.c.

| HyD | Mr. Patrick Ng | (By Fax: 3188 6614) |
|--------|----------------|---------------------|
| HyD | Mr. Cheng Pan | (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, DF, HW, ENPO Site

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Ramboll Hong Kong Limited 英環香港有限公司

21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.ramboll.com

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- Appendix I Monthly Summary of Waste Flow Table
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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 Fourteenth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 July 2019 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:

Land-based Works

- Electrical and Mechanical Works and Architectural Builders 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;
- Building structure at Fire Services Department Building;
- Building Structure at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2;

- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builders Work and Finishes at underpass at C3 area; and
- Building Structure at Satellite Control Building.

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

| 24-hour TSP Monitoring | 10 sessions |
|-------------------------------------|-------------|
| 1-hour TSP Monitoring | 10 sessions |
| Landfill Gas Hazard Monitoring | 13 days |
| Joint Environmental Site Inspection | 4 sessions |

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Two (2) exceedances of Action Limit and one exceedance of Limit Level of 1-hour TSP and no exceedance of 24-hour TSP Action and Limit Levels were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period.

Breaches of Action and Limit Levels for Landfill Gas Hazard Montioring

No exceedance of Action and Limit Levels was recorded for landfill gas hazard monitoring in the reporting month.

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 Month

Works to be undertaken in the next monitoring period of August 2019 include the following:

Land-based Works

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 Builders 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;
- Building structure at Fire Services Department Building;
- Building Structure at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builders Work and Finishes at underpass at C3 area;
- Building Structure at Satellite Control Building;
- Building Structure at Kiosk S1; and
- Building Structure at Toll Booth.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of August 2019 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.





PROJECT

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 1.1

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KEY PLAN

PROJECT NO.

CONTRACT NO.

60240249

HY/2017/10

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

60240249/C4/7051A





PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT



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Figure 1.2a

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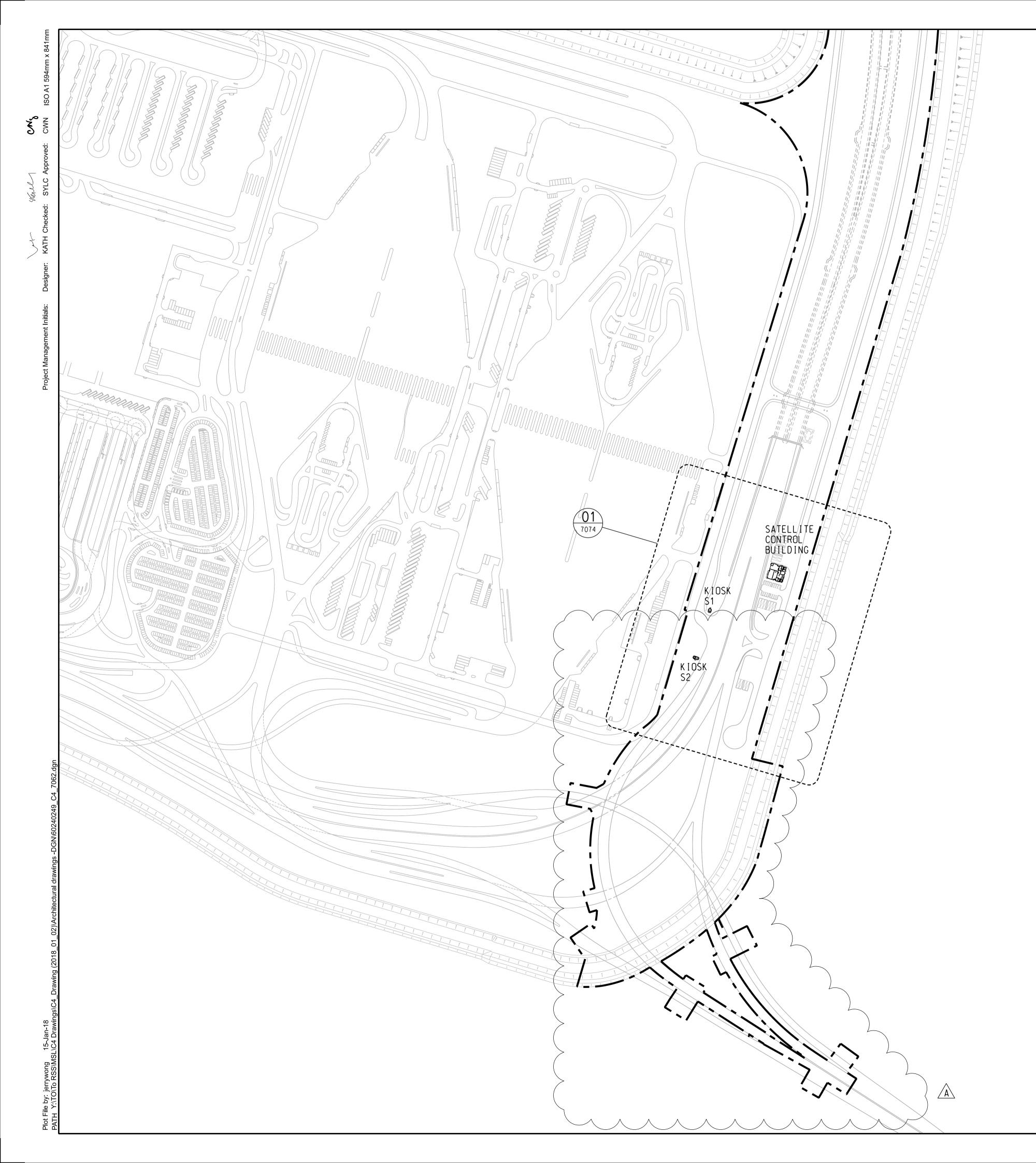
SHEET TITLE

ZONING PLAN

(SHEET 1)

SHEET NUMBER

60240249/C4/7061A





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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT ^{業主}



■▲■ 路 政 署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

CONSULTANT 工程顧問公司

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SUB-CONSULTANTS 分判工程顧問公司

Figure 1.2b

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KEY PLAN 索引圖

PROJECT NO. 項目編號

CONTRACT NO. ^{合約編號}

60240249

HY/2017/10

SHEET TITLE 圖紙名稱

ZONING PLAN (SHEET 2)

SHEET NUMBER 圖紙編號

60240249/C4/7062A





PROJECT

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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT ^{業主}



■▲■ 路政署 HIGHWAYS DEPARTMENT 港珠澳大橋香港工程管理處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

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Figure 1.2c

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| - | DEC.17 | TENDER DRAWING | SYLC |
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STATUS 階段

| SCALE ^{比例} | DIMENSION UNIT 尺寸單位 |
|------------------------|------------------------|
| 1 1:2500 | MILLIMETRES |

KEY PLAN 索引圖

PROJECT NO. 項目編號

CONTRACT NO. ^{合約編號}

HY/2017/10

60240249

SHEET TITLE 圖紙名稱

ZONING PLAN (SHEET 3)

SHEET NUMBER 圖紙編號

60240249/C4/7063A

1.2 SCOPE OF REPORT

This is the Fourteenth Monthly 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 in July 2019.

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 Department) | Project Coordinator | Joseph Lee | 2762 4958 | 3188 6614 |
| 1 , | 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 (Ramboll Hong Kong | ENPO Leader | Y.H. Hui | 3465 2850 | 3465 2899 |
| 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 three-month rolling construction programme is shown in Appendix B.

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

Land-based Works

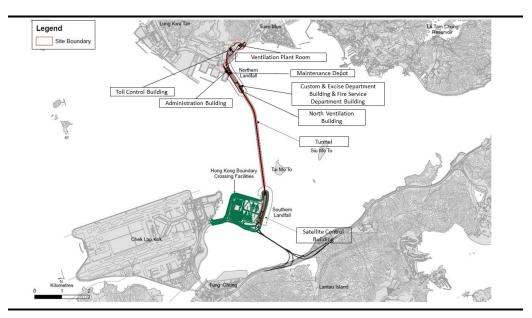
- Electrical and Mechanical Works and Architectural Builders Work and Finishes at Toll Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Electrical and Mechanical Works at North Ventilation Building;

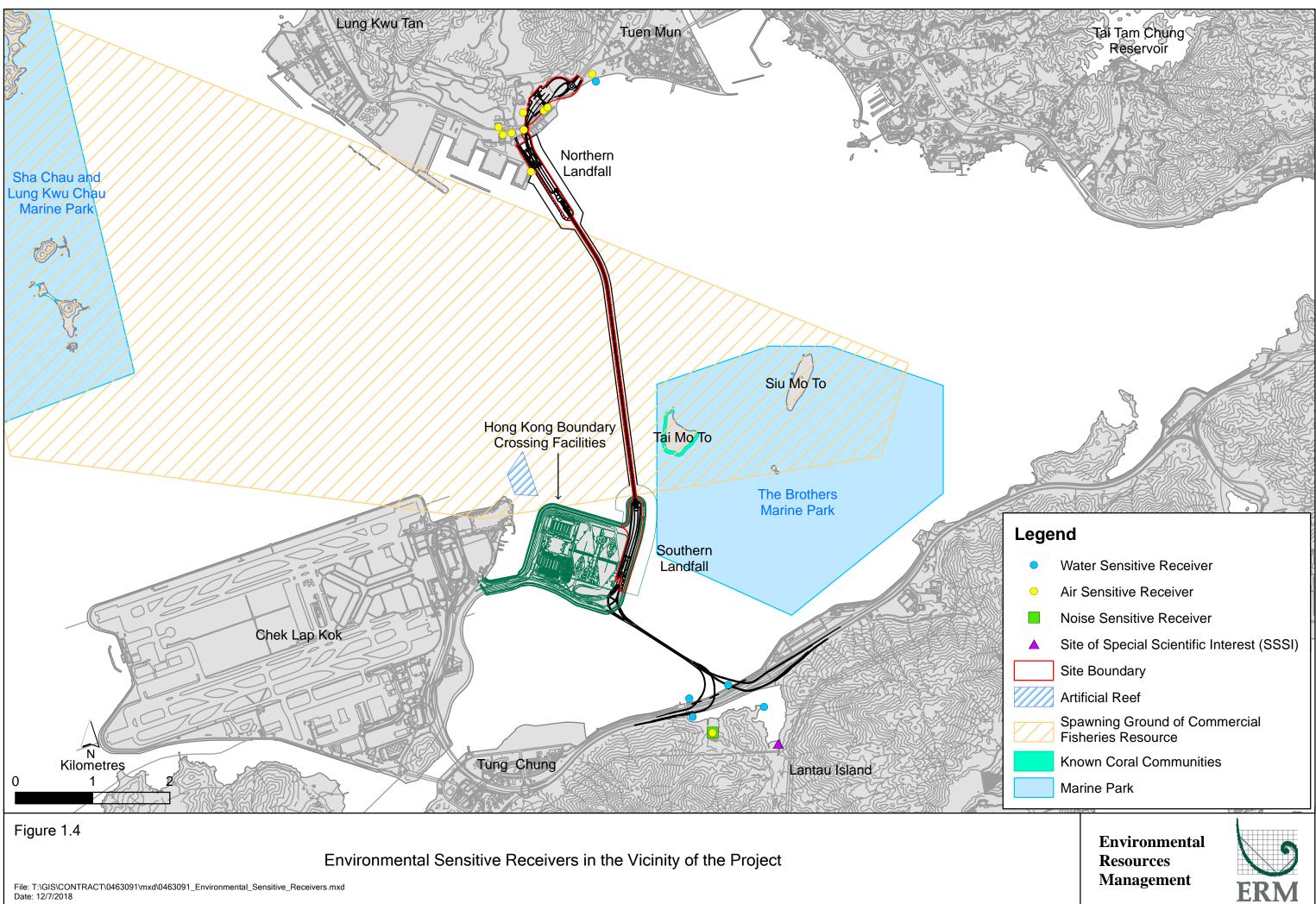
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Administration Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Maintenance Depot;
- Building structure at Fire Services Department Building;
- Building Structure at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builders Work and Finishes at underpass at C3 area; and
- Building Structure at Satellite Control 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 Month





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*.

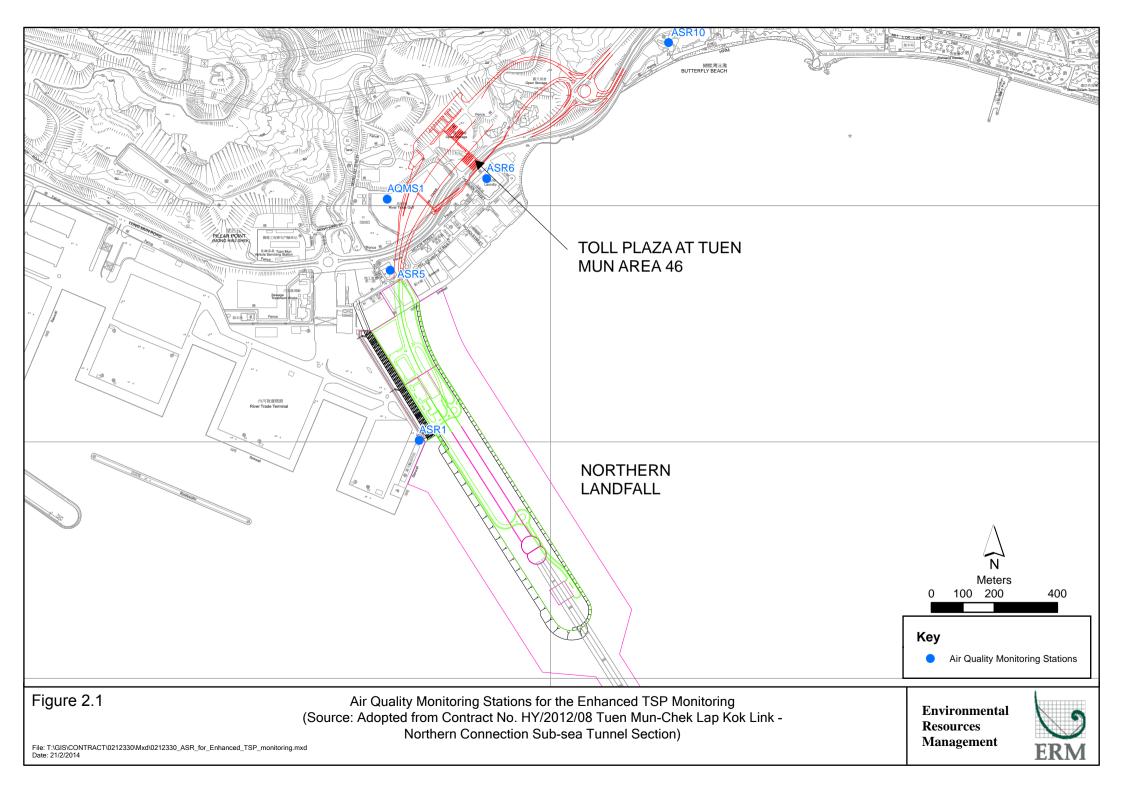
Table 2.1Locations of Impact Air Quality Monitoring Stations and its Corresponding
Monitoring Requirements

| Monitoring Station | Monitoring Dates | Location | Description | Parameters & Frequency |
|---------------------------|--------------------------|-------------------|-------------|---|
| ASR1 | 1, 4, 7, 10, 13, 16, 19, | Tuen Mun | Office | TSP monitoring |
| | 22, 25 and 28 July | Fireboat Station | | 1-hour Total Suspended |
| | 2019 | | | Particulates (1-hour TSP, |
| ASR5 | | Pillar Point Fire | Office | μ g/m ³), 3 times in every 6 days |
| | | Station | | • 24-hour Total Suspended |
| | | | | Particulates (24-hour TSP, |
| AQMS1 | | Previous River | Bare ground | μ g/m ³), daily for 24-hour in |
| | | Trade Golf | | every 6 days |
| | | | | Enhanced TSP monitoring |

 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/

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| Monitoring Station Monitoring Dates | Location | Description | Parameters & Frequency |
|-------------------------------------|-----------------|--------------|---|
| ASR6 | Butterfly Beach | Office | (commenced on 24 October 2014 |
| | 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⁾.

Two (2) Action Level exceedances and one (1) Limit Level exceedance of 1-hour TSP were recorded on 10 and 28 July 2019 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 J*. 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.

2.2 LANDFILL GAS HAZARD MONITORING

In accordance with the Updated EM&A Manual of the TM-CLK Link Project, landfill gas hazard monitoring should be perform to ensure that the works area at Pillar Point Valley (PPV) Landfill is free of landfill gas during any excavations works. A total of 13 days of landfill gas hazard monitoring was conducted at Ventilation Plant Room during 17 to 31 July 2019 (*Appendix F*).

The landfill gas hazard monitoring was conducted in accordance to the Upated EM&A Manual with a Altair 5X Gas Detector. The calibration certificate for the equipment is presented in *Appendix G*.

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

2.2.1 *Results and Observations*

Results for landfill gas hazard monitoring are summarized in *Table 2.2* and the monitoring data is provided in *Appendix H*.

No exceedance of Action and Limit Levels for methane, oxygen and carbon dioxide was recorded in the reporting month.

Table 2.2Summary of Landfill Gas Hazard Monitoring Results in the Reporting Period

| | Average (%) | Range (%) | Action / Limit Level (%) |
|----------------|-------------|-----------|--------------------------|
| Methane | 0 | 0 | 10 / 20 |
| Oxygen | 20.8 | 20.7-20.9 | 19 / 18 |
| Carbon Dioxide | 0.03 | 0.03-0.04 | 0.5 / 1.5 |

2.3 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. In the reporting month, four (4) site inspections were carried out on 5, 12, 19 and 26 July 2019.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.3*.

| Table 2.3 | Specific Observations and Recommendations during the Weekly Site |
|-----------|--|
| | Inspection in this Reporting Month |

| Inspection Date | Observations | Recommendations/ Remarks |
|-----------------|--|--|
| 5 July 2019 | Toll Control Building Waste should be sorted for disposal. Chemical container was observed without drip tray. | Toll Control Building The Contractor was reminded to sort waste for disposal. The Contractor was reminded to place chemical container in drip tray. |
| 12 July 2019 | North Ventilation BuildingWaste should be sorted for disposal. | North Ventilation BuildingThe Contractor was reminded to sort waste for disposal. |
| 19 July 2019 | North Ventilation Building Accumulated waste should be cleared and sorted for disposal. Tunnel Accumulated waste should be cleared and sorted for disposal. | North Ventilation Building The Contractor was reminded to clear accumulated waste and waste should be sorted for disposal Tunnel The Contractor was reminded to clear accumulated waste and waste should be sorted for disposal |
| 26 July 2019 | North Ventilation BuildingAccumulated waste should be cleared. | North Ventilation Building The Contractor was reminded to clear accumulated waste. |

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

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 I*). The quantities of different types of wastes are summarized in *Table 2.4*.

Table 2.4Quantities of Different Waste Generated in the Reporting Month

| Month/Year | Inert C&D Materials ^(a) (m ³) | Inert Construction Waste Re- used (m ³) | Non-inert Construction Waste ^(b) (kg) | Imported Fill (m³) | Recyclable Materials ^(c) (kg) | Chemical Wastes (kg) |
|------------|--|---|--|-----------------------|--|----------------------|
| July 2019 | 58 | 0 | 148,880 | 0 | 0 | 0 |
| | Notes: | | | | | |
| | (a) Inert const | truction wastes in | nclude hard rock a | and large broken co | oncrete disposed a | s 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 properly and store 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.

| Table 2.5 | Summary of Environmental Licensing and Permit Stat | tus |
|-----------|--|-----|
| 10000 10 | | |

| 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-RW0267-19 | 21 June 2019 | 14 October 2019 | GCL | For Toll Control Building, Administration |
| | | | | | Building, Maintenance Depot, FSD, C&ED, |
| | | | | | Boundary Wall, Tunnel, Approach ramp, |
| | | | | | NVB and WA18 |
| Construction Noise Permit | GW-RS0340-19 | 18 April 2019 | 17 October 2019 | GCL | For Kiosk S2 and SCB |

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.

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

2.7 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Two (2) Action Level exceedances and one (1) Limit Level exceedance of 1-hour TSP were recorded on 10 and 28 July 2019 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 G*. 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.

No exceedance of Action and Limit Levels for methane, oxygen and carbon dioxide was recorded during landfill gas hazard monitoring in the reporting month.

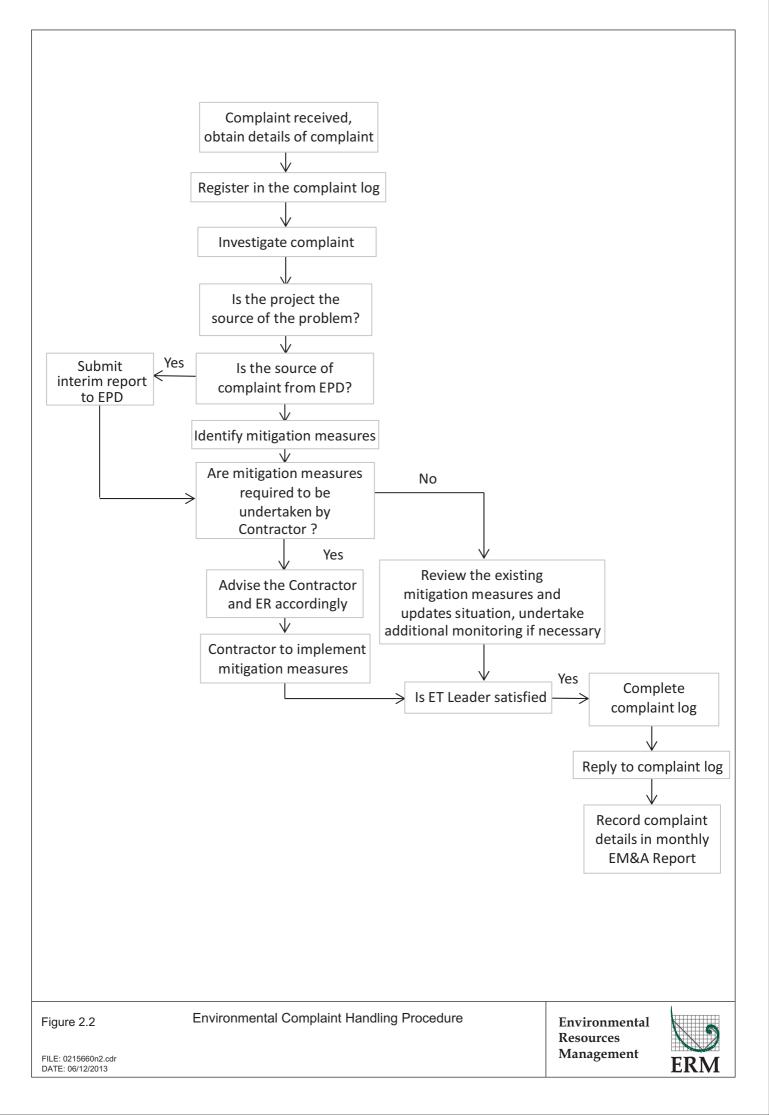
Cumulative statistics are provided in Appendix J.

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 J*.



3 FUTURE KEY ISSUES

3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Contract in August 2019 will be:

Land-based Works

- Electrical and Mechanical Works and Architectural Builders 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;
- Building structure at Fire Services Department Building;
- Building Structure at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builders Work and Finishes at underpass at C3 area;
- Building Structure at Satellite Control Building;
- Building Structure at Kiosk S1; and
- Building Structure at Toll Booth.

3.2 Key Issues for the Coming Month

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of July 2019 are mainly associated with dust and waste management issues.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Fourteenth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 July 2019, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

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

Two (2) exceedances of Action level and one (1) exceedance 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 G*. 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.

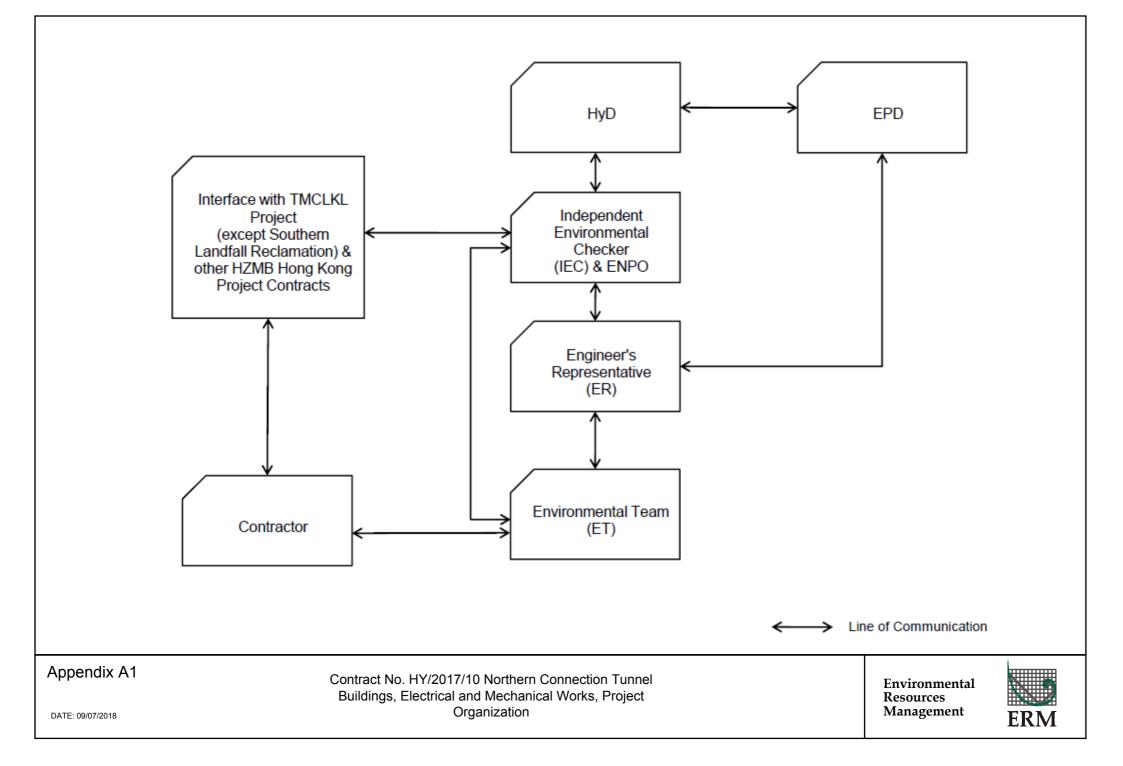
No exceedance of Action and Limit Levels was recorded for landfill gas hazard monitoring in the reporting month.

Environmental site inspection was carried out four (4) times in July 2019. 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 (Days) | % Comp | Remaining Start Duration | Finish | | 2019 | | |
|-------------------------------|---|--------------------|------------|--------------------------------------|---------------------------|-----|-----------|-----------|------------|
| | | | | | | Jul | Aug | Sep | Oct |
| | mme Three Month Rolling Programme 20-Jul-19 | | | | | | | | |
| Contract Dates | | | | | | | | | |
| Key Dates KD02 | KD00 Admin Bldg Maintenance Danet Kingk N0 & TCCC Bravisian | 0 | 00/ | 0 | 00 Aug 10* | | • | | |
| KD02 | KD02 - Admin Bldg, Maintenance Depot, Kiosk N2, & TCSS Provision KD04 - Underpass/Roundabout Area & TCSS Provision | 0 | 0% 100% | 0 | 28-Aug-19* 12-Jul-19 A | • | • | | |
| | KD04 - Onderpass/Roundabout Area & TCSS Provision | 0 | 100% | 0 | 12-JUI-19 A | • | | | |
| Portion Access Dates P2010 | Access to Portion VII SVB Basement BL1 | 0 | 0% | 0 20-Jul-19 | | | | | |
| P2020 | Access to Portion VII SVB G/F | 0 | 0% | 0 31-Jul-19 | | | • | | |
| P2030 | Access to Portion VII SVB 1/F | 0 | 0% | 0 30-Aug-19 | | | • | • | |
| P2040 | Access to Portion VII SVB 2/F | 0 | 0% | 0 30-Sep-19 | | | | | • |
| P320 | Access to Portion III (Day 437) | 0 | 100% | 0 17-Jul-19 A | | • | | | |
| Portion Possession Dates | Access to Folition in (Day 437) | 0 | 100 % | 0 17-501-19 A | | | | | |
| PORTION POSSESSION Dates | Possession to Portion XIX (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P285 | Possession to Portion XI (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P290 | Possession to Portion XXIa (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P290 P295 | Possession to Portion IX (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P300 | Possession to Portion XXIb (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P305 | Possession to Portion X (Day 390) | 0 | 0% | 0 20-Jul-19 | _ | | | | |
| P315 | Possession to Portion XXIc (Day 390) | 0 | 0% | 0 20-Jul-19 | | | | | |
| P315 | Possession to Portion XXII (Day 390) | 0 | 0% | 0 20-501-19 0 01-Sep-19 | | | | • | |
| P335 | Possession to Portion XXIII (Day 483) | 0 | 0% | 0 01-Sep-19 | | | | • | |
| P345 | Possession to Portion VIb (Day 483) | 0 | 0% | 0 01-Sep-19 | | | | | |
| Portion Handover Dates | Tossession to Foliton vib (Day 403) | 0 | 076 | 01-366-19 | | | | | |
| H110 | Vacate Portion XVIIb (Day 137 after Possession) | 0 | 0% | 0 | 14-Oct-19* | | | | |
| Major Design Submission & | | 0 | 078 | 0 | 14-001-19 | | | | |
| Toll Control Building | x Approval | | | | | | | | |
| MVAC System | | | | | | | | | |
| TCB-EMD1095 | Authorities Review and Comment of AHU/PAU Static Pressure Calculation | 56 | 50% | 28 23-Aug-18 A | 21-Aug-19 | | | | |
| TCB-EMD1115 | Authorities Review and Comment of MVAC Pump head calculation | 56 | 50% | 28 23-Aug-18 A | _ | | | | |
| Electrical System | | | | | | | | | |
| TCB-EMD1015 | Authorities Review and Comment of UPS and Battery Capacity Calculations | 56 | 50% | 28 22-Aug-18 A | 21-Aug-19 | | | | |
| TCB-EMD1055 | Authorities Review and Comment of Generator Calculation | 56 | 50% | 28 15-Aug-18 A | _ | | | | |
| TCB-EMD1325 | Preparation and Resubmission of System Design of PV System | 26 | 50% | 13 11-Jun-19 A | | | | | |
| TCB-EMD1335 | ER Review and Approval of System Design of PV System | 13 | 0% | 13 05-Aug-19 | - | | | | |
| TCB-EMD1345 | Authorities Review and Comment of PV System | 56 | 50% | 28 28-May-19 A | | | | | |
| Fire Service System | | | 5070 | 20 20 10 20 | 217/09/10 | | | | |
| TCB-EMD1175 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 01-Aug-18 A | 21-Aug-19 | | | | |
| TCB-EMD1195 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | 28 14-Aug-18 A | | | | | |
| TCB-EMD1215 | Authorities Review and Comment of FM200 System Design Calculation | 56 | 50% | 28 13-Aug-18 A | _ | | | | |
| Plumbing & Drainage Sy | | | 0078 | | , ag 10 | | | | |
| TCB-EMD1235 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | 28 07-Aug-18 A | 21-Aug-19 | | ; | | |
| TCB-EMD1275 | Authorities Review and Comment of Hot water system capacity calculation | 56 | 50% | 28 07-Aug-18 A | | | | | |
| TCB-EMD1395 | Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation | 56 | 50% | 28 23-Jul-18 A | | | | | |
| Administration Building | | | 2070 | | | | | | |
| MVAC System | | | | | | | | | |
| ADB-EMD1015 | Authorities Review and Comment of AC Cooling Capacity Calculation | 56 | 50% | 28 17-Aug-18 A | 21-Aua-19 | | | | |
| ADB-EMD1035 | Authorities Review and Comment of AHU/PAU Static Pressure Calculation | 56 | 50% | 28 08-Oct-18 A | | | | | |
| ADB-EMD1055 | Authorities Review and Comment of Pump head calculation | 56 | 50% | 28 07-Nov-18 A | _ | | | | |
| | | | | | - 3 - | | | <u>.;</u> | |
| | \sim | ONTRACT N | | 17/10 | | | P 1/26 | Revision | Checked Ap |
| | | | | J1//IU | | | 20-Jul-19 | | |
| | | | 0TIONI - | | | | | | |
| | | | | BUILDING E&M WC AS OF 20 JUL 2019 | | | | | |

|) | Activity | Duration | % Comp | Remaining | Start | Finish | | | 0010 | | |
|----------------------------|---|-----------|---------------------------------------|-----------|-------------|------------|-----|--------|-------------------|----------|---------------|
| | | (Days) | | Duration | | | Jul | | 2019 Aug | Sep | Oct |
| ADB-EMD1075 | Authorities Review and Comment of Mechanical Ventilation Capacity Calculation | 56 | 50% | 28 | 17-Aug-18 A | 21-Aug-19 | | | | | |
| Electrical System | | | | | | | | | | | |
| ADB-EMD1115 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | 28 | 27-Aug-18 A | 21-Aug-19 | | | | | |
| ADB-EMD1135 | Authorities Review and Comment of Generator Calculation | 56 | 50% | 28 | 09-Aug-18 A | 21-Aug-19 | | 1 | | | |
| ADB-EMD1325 | Preparation and Resubmission of System Design of PV System | 26 | 50% | 13 | 11-Jun-19 A | 03-Aug-19 | | | | | |
| ADB-EMD1335 | ER Review and Approval of System Design of PV System | 13 | 0% | 13 | 05-Aug-19 | 19-Aug-19 | | | | | |
| ADB-EMD1345 | Authorities Review and Comment of System Design of PV System | 56 | 50% | | 28-May-19 A | - | | | | | |
| Fire Service System | | | | | | | | | | | |
| ADB-EMD1155 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 | 13-Aug-18 A | 21-Aug-19 | | | | | |
| 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 Sy | | | | - | 3 - | - 3 - | | | | | |
| ADB-EMD1215 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | 28 | 25-Aug-18 A | 21-Aug-19 | | | | | |
| ADB-EMD1235 | Authorities Review and Comment of Pressure Vessel Calculation | 56 | 50% | | | 21-Aug-19 | | | | | |
| ADB-EMD1255 | Authorities Review and Comment of Hot water system capacity calculation | 56 | 50% | | 25-Aug-18 A | | | 1 | | | |
| North Ventilation Building | | 50 | 5078 | 20 | 23-Aug-10 A | 21-Aug-15 | | | | | |
| | | | | | | | | | | | |
| MVAC System | Authorition Proving and Comment of Machanical Ventilation Consolity Calculation | EC | E00/ | 00 | 26 Son 10 A | 21 Aug 10 | | | | | |
| NVB-EMD1035 | Authorities Review and Comment of Mechanical Ventilation Capacity Calculation | 56 | 50% | 28 | 26-Sep-18 A | 21-Aug-19 | | | | | |
| Electrical System | Authorities Deview and Comment of UV/Electrical Leadies, Orbolation | 50 | F00 / | | 00.0 10.1 | 01 Aug 10 | | | | | |
| 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 | - | | | | | |
| NVB-EMD1095 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | | 03-Sep-18 A | _ | | | | | |
| NVB-EMD1115 | Authorities Review and Comment of Generator Calculation | 56 | 50% | 28 | 17-Aug-18 A | 21-Aug-19 | | | | | |
| Fire Service System | | | | | | | | | | | |
| NVB-EMD1135 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | | 01-Aug-18 A | - | | | | | |
| NVB-EMD1155 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | 28 | 14-Aug-18 A | 21-Aug-19 | | | | | |
| NVB-EMD1175 | Authorities Review and Comment of FM200 System Design Calculation | 28 | 50% | 14 | 13-Aug-18 A | 05-Aug-19 | | | | | |
| Plumbing & Drainage Sy | ystem | | | | | | | | | | |
| NVB-EMD1305 | Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation | 56 | 50% | 28 | 07-Aug-18 A | 21-Aug-19 | | | | | |
| Maintenance Depot | | | | | | | | | | | |
| MVAC System | | | | | | | | | | | |
| MD-EMD1015 | Authorities Review and Comment of AC Cooling Capacity Calculation | 56 | 50% | 28 | 17-Aug-18 A | 21-Aug-19 | | | | | |
| Electrical System | | | | | | | | | | | |
| MD-EMD1075 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | 28 | 27-Aug-18 A | 21-Aug-19 | | | | | |
| MD-EMD1095 | Authorities Review and Comment of Generator Calculation | 56 | 50% | | 06-Oct-18 A | _ | | | | | |
| Fire Service System | | | | | | - 3 - | | | | | |
| MD-EMD1115 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 | 14-Aug-18 A | 21-Aug-19 | | | | | |
| MD-EMD1135 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | | 14-Aug-18 A | 0 | | | | | |
| MD-EMD1155 | Authorities Review and Comment of Sprinker Fullip Read Calculation Authorities Review and Comment of FM200 System Design Calculation | 56 | 50% | | 14-Aug-18 A | _ | | | | | |
| Plumbing & Drainage Sy | | | 50 % | 20 | 1- Aug-10 A | 21 /lug=13 | | | | | |
| MD-EMD1175 | Authorities Review and Comment of Pump Head Calculation | EC | 50% | 00 | 12 Aug 10 4 | 21-Aug 10 | | | | | |
| MD-EMD1175 MD-EMD1195 | Authorities Review and Comment of Pump Head Calculation Authorities Review and Comment of Pressure Vessel Calculation | 56 56 | 50% 50% | | 13-Aug-18 A | - | | | | | |
| | | | | | 13-Aug-18 A | | | | | | |
| MD-EMD1215 | Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation | 56 | 50% | 28 | 27-Aug-18 A | ∠1-Aug-19 | | | | | |
| Satellite Control Building | | | | | | | | | | | |
| MVAC System | | | Ford | | 47 4 / | 01 4 15 | | | | | |
| SCB-EMD1015 | Authorities Review and Comment of AC Cooling Capacity Calculation | 56 | 50% | 28 | 17-Aug-18 A | 21-Aug-19 | | | | | |
| Electrical System | | | | | | | | | | | |
| SCB-EMD1055 | Authorities Review and Comment of UPS and Battery Capacity Calculations | 56 | 50% | 28 | 05-Sep-18 A | 21-Aug-19 | | | | | |
| | | | | | | | | | Dete | Doutsian | Chadrad Area |
| | CC | ONTRACT N | NO. HY20 | 017/10 | | | | P 2/26 | Date 20-Jul-19 | Revision | Checked Appro |
| | NORTHERN TUNN | IEL CONNE | CTION E | BUILDING | E&M WC | RKS | | | | | |
| | THREE MONTH | | | AS OF 20 | JUL 2019 |) | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| | | | | | | | | | | | |

| | Activity | Duratior (Davs | | | | Finish | | 0010 | 19 | |
|----------------------------|---|-------------------|----------|----------|--------------|-----------|---|-------------|----------|-----------|
| | | (Days) | | Duration | | | Jul | 2019 Aug | Sep | 0 |
| SCB-EMD1075 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | 28 | 01-Nov-18 A | 21-Aug-19 | | ,g | | |
| SCB-EMD1095 | Authorities Review and Comment of Generator Calculation | 56 | 50% | 28 | 27-Nov-18 A | 21-Aug-19 | | | | |
| Fire Service System | | | | | | _ | | | | |
| SCB-EMD1115 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 | 14-Aug-18 A | 21-Aug-19 | | | | |
| 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 Sy | | | | | U | 0 | | | | |
| SCB-EMD1285 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | 28 | 27-Aug-18 A | 21-Aug-19 | | | | |
| SCB-EMD1335 | Authorities Review and Comment of Pressure Vessel Calculation | 56 | 50% | | 27-Aug-18 A | | | | | |
| Costom & Excise Departm | | | | | - 3 - | - 3 - | | | | |
| Electrical System | | | | | | | | | | |
| CEDB-EMD1015 | Authorities Review and Comment of UPS and Battery Capacity Calculations | 56 | 50% | 28 | 01-Nov-18 A | 21-Aug-19 | | | | |
| CEDB-EMD1035 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | | 01-Nov-18 A | | | | | |
| CEDB-EMD1055 | Authorities Review and Comment of Generator Calculation | 56 | 50% | | 27-Nov-18 A | | | | | |
| Fire Service System | | | | | | go | | | | |
| CEDB-EMD1075 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 | 21-Dec-18 A | 21-Aug-19 | | | | |
| CEDB-EMD1095 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | | 08-Oct-18 A | | | | | |
| Plumbing & Drainage Sy | | | 0070 | | | | | | | |
| CEDB-EMD1135 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | 28 | 07-Sep-18 A | 21-Aug-19 | | | | |
| CEDB-EMD1155 | Authorities Review and Comment of Pressure Vessel Calculation | 56 | 50% | | 05-Sep-18 A | | | | | |
| Fire Services Department | | 50 | 50 % | 20 | 03-3ep-10 A | 21-Aug-19 | | | | |
| Electrical System | building | | | | | | | | | |
| FSDB-EMD1015 | Authorities Review and Comment of UPS and Battery Capacity Calculations | 56 | 50% | 20 | 01-Nov-18 A | 21 Aug 10 | | | | |
| FSDB-EMD1013 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | | 01-Nov-18 A | | | | | |
| FSDB-EMD1035 | Authorities Review and Comment of Generator Calculation | 56 | 50% | | 27-Nov-18 A | - | | | | |
| | Authonities Review and Comment of Generator Calculation | 00 | 50% | 28 | 27-INOV-18 A | 21-Aug-19 | | | | |
| Fire Service System | Authorities Deview and Comment of EC Dump Lload Coloulation | EC | E00/ | 00 | 07 Can 10 A | 01 Aug 10 | | | | |
| FSDB-EMD1075 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | | 07-Sep-18 A | - | | | | |
| FSDB-EMD1095 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | | 07-Sep-18 A | - | | | | |
| FSDB-EMD1205 | Authorities Review and Comment of FM200 System Design Calculation | 56 | 50% | 28 | 07-Sep-18 A | 21-Aug-19 | · · · · · · · · · · · · · · · · · · · | | | |
| Plumbing & Drainage Sy | | 50 | 500/ | | 05.0 40.4 | | | | | |
| FSDB-EMD1135 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | | 05-Sep-18 A | | | | | |
| FSDB-EMD1155 | Authorities Review and Comment of Pressure Vessel Calculation | 56 | 50% | 28 | 05-Sep-18 A | 21-Aug-19 | | | | |
| South Ventilation Building | | | | | | | | | | |
| MVAC System | | | | | | | | | | |
| SVB-EMD1015 | Authorities Review and Comment of Staircase Pressurization System Calculation | 56 | 50% | | 24-Jan-19 A | - | | | | |
| SVB-EMD1035 | Authorities Review and Comment of Mechanical Ventilation Capacity Calculation | 56 | 50% | 28 | 11-Sep-18 A | 21-Aug-19 | | | | |
| Electrical System | | | | | | | | | | |
| SVB-EMD1055 | Authorities Review and Comment of HV Electrical Loading Calculation | 56 | 50% | | 01-Nov-18 A | <u> </u> | | | | |
| SVB-EMD1095 | Authorities Review and Comment of Electrical Loading Demand Calculation | 56 | 50% | | 28-Nov-18 A | - | | | | |
| SVB-EMD1115 | Authorities Review and Comment of Generator Calculation | 56 | 50% | 28 | 07-Dec-18 A | 21-Aug-19 | | | | |
| Fire Service System | | | | | | | | | | |
| SVB-EMD1135 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | | 21-Dec-18 A | | | | | |
| SVB-EMD1155 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | | 21-Dec-18 A | - | | | | |
| SVB-EMD1175 | Authorities Review and Comment of FM200 System Design Calculation | 56 | 50% | 28 | 30-Nov-18 A | 21-Aug-19 | | | | |
| /ehicular Underpass | | | | | | | | | | |
| Fire Service System | | | | | | | | | | |
| VU-EMD1025 | Authorities Review and Comment of Foam system design calculation | 56 | 50% | 28 | 09-Aug-18 A | 21-Aug-19 | | | | |
| Plumbing & Drainage Sy | stem | | | | | | | | | |
| | | | | | | | | | | |
| | | CONTRACT N | IO. HY20 | 17/10 | | | | P 3/26 Date | Revision | Checked A |
| | NORTHERN TU | | | | E&M WC | RKS | | 20-Jul-19 | | |
| | | NTHLY PROGE | | | | | | | | |
| | | | | | 002 2019 | , | | | | |

|) | Activity | Duration | % Comp | Remaining Start | Finish | • | | | 2019 | | | |
|---------------------------|---|----------|---------|---------------------------------------|-----------|---|-----|----------|-----------|----------|-----------|--------|
| | | (Days) | | Duration | | | Jul | | Aug | Sep | 00 | vct |
| VU-EMD1045 | Authorities Review and Comment of Pump Head Calculation | 56 | 50% | 28 27-Sep-18 A | 21-Aug-19 | | | | | | | |
| Tunnel Lighting System | | | | | | | | | | | | |
| VU-EMD1145 | Authorities Review and Comment of Design Proposal of Tunnel Lighting System (TLS) | 56 | 50% | 28 29-Aug-18 A | 21-Aug-19 | | | | | | | |
| VU-EMD1165 | Authorities Review and Comment of Tunnel Lighting Lux Calculation | 56 | 50% | 28 31-Dec-18 A | 21-Aug-19 | | | 1 | | | | |
| Tunnel | | | | | | | | | | | | |
| Fire Service System | | | | | | | | | | | | |
| TUN-EMD1035 | Authorities Review and Comment of Foam system design calculation | 56 | 50% | 28 09-Aug-18 A | 21-Aug-19 | | | | | | | |
| TUN-EMD1115 | Authorities Review and Comment of FS Pump Head Calculation | 56 | 50% | 28 11-Jan-19 A | 21-Aug-19 | | | | | | | |
| TUN-EMD1135 | Authorities Review and Comment of Sprinkler Pump Head Calculation | 56 | 50% | 28 25-Jan-19 A | | | | 1 | | | | |
| Plumbing & Drainage S | | | | | | | | | | | | |
| TUN-EMD1185 | Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation | 56 | 50% | 28 27-Sep-18 A | 21-Aug-19 | | | | | | | |
| Tunnel Lighting System | | | | | | | | | | | | |
| TUN-EMD1075 | Authorities Review and Comment of Design Proposal of Tunnel Lighting System (TLS) | 56 | 50% | 28 29-Aug-18 A | 21-Aug-19 | | | | | | | |
| TUN-EMD1095 | Authorities Review and Comment of Tunnel Lighting Lux Calculation | 56 | 50% | 28 31-Dec-18 A | | | | | | | | |
| | | 50 | 50% | 20 31-Dec-10 A | 21-Aug-19 | | | | | | | |
| CCMS, TCS and ELV Syste | Authorities Review and Comment of System Design for Toll Control system | FC | E00/ | 00 07 101 10 4 | 01 Aug 10 | | | | | | | |
| ELV-EMD1015 | | 56 | 50% | 28 27-Jul-18 A | - | | | | | | | |
| ELV-EMD1035 | Authorities Review and Comment of System Design for CMCS | 56 | 50% | 28 26-Sep-18 A | | | | | | | | |
| ELV-EMD1055 | Authorities Review and Comment of System Design for other ELV systems | 56 | 50% | 28 02-Oct-18 A | 21-Aug-19 | | | | | | | |
| Major Material Submissio | | | | | | | | | | | | |
| GEN-EMM1020 | Authorities Review and Comment of Technical Info Miscellaneous 1st fix Materials/ Equipment | 28 | 50% | 14 31-May-18 A | - | | | | | | | |
| GEN-EMM1050 | Authorities Review and Comment of Technical Info Miscellaneous 2nd fix Materials/ Equipment | 28 | 50% | 14 20-May-18 A | | | | | | | | |
| GEN-EMM1080 | Authorities Review and Comment of Technical Info Miscellaneous final fix Materials/ Equipment | 28 | 50% | 14 02-Jul-18 A | 05-Aug-19 | | | | | | | |
| MVAC System | | | | | | | | | | | | |
| MVAC-EMM1015 | Authorities Review and Comment of Technical Info Chiller | 56 | 50% | 28 14-Jun-18 A | 21-Aug-19 | | | | | | | |
| MVAC-EMM1035 | Authorities Review and Comment of Technical Info Chilled Water Pump | 56 | 50% | 28 12-Jun-18 A | 21-Aug-19 | - | | | | | | |
| MVAC-EMM1055 | Authorities Review and Comment of Technical Info Cooling Tower | 56 | 50% | 28 11-Jun-18 A | 21-Aug-19 | | | | | | | |
| MVAC-EMM1075 | Authorities Review and Comment of Technical Info Computer Room AC (CRAC) Unit | 56 | 50% | 28 19-Jul-18 A | 21-Aug-19 | | | | | | | |
| MVAC-EMM1095 | Authorities Review and Comment of Technical Info AHU & PAU | 56 | 50% | 28 10-Sep-18 A | 21-Aug-19 | | | | | | | |
| MVAC-EMM1115 | Authorities Review and Comment of Technical Info Staircase Pressurization Fan | 56 | 50% | 28 17-Jul-18 A | 21-Aug-19 | | | <u> </u> | | | | |
| Electrical System | | | | | | | | | | | | |
| ELE-EMM1075 | Authorities Review and Comment of Technical Info HV Cables | 56 | 50% | 28 17-Sep-18 A | 21-Aug-19 | | | | | | | |
| ELE-EMM1155 | Authorities Review and Comment of Technical Info UPS and Battery | 28 | 50% | 14 26-Nov-18 A | - | | | | | | | |
| ELE-EMM1175 | Authorities Review and Comment of Technical Info MCB & MCCB & Distribution Board | 28 | 50% | 14 04-Dec-18 A | - | | | | | | | |
| ELE-EMM1225 | Authorities Review and Comment of Technical Info PV System | 56 | 50% | 28 05-Mar-19 A | | | | | | | | |
| Fire Service System | | 50 | 5070 | 20 03 Mai 137 | 217/09/10 | | | | | | | |
| FS-EMM1015 | Authorities Review and Comment of Technical Info FM200 | 56 | 50% | 28 20-Aug-18 A | 21 Aug 10 | | | | | | | |
| | | 56 | | | | | | | | | | |
| FS-EMM1095 | Authorities Review and Comment of Technical Info FR/ HR system | 56 | 50% | 28 24-Sep-18 A | . | | | | | | | |
| FS-EMM1115 | Authorities Review and Comment of Technical Info Gas detection | 56 | 50% | 28 05-Dec-18 A | 21-Aug-19 | | | | | | | |
| Plumbing & Drainage Sys | | | | | | | | | | | | |
| PD-EMM1015 | Authorities Review and Comment of Technical Info Sump Pump | 56 | 50% | 28 25-Oct-18 A | <u> </u> | | | | | | | |
| PD-EMM1035 | Authorities Review and Comment of Technical Info Hot Water System | 56 | 50% | 28 11-Nov-18 A | | | | | | | | |
| PD-EMM1055 | Authorities Review and Comment of Technical Info LMCP (PD) | 56 | 50% | 28 16-Jan-19 A | 21-Aug-19 | | | | | | | |
| Tunnel Ventilation System | n | | | | | | | | | | | |
| TVS-EMM1035 | Authorities Review and Comment of Technical Info Pressurization Fan | 56 | 50% | 28 19-Jul-18 A | - | | | | | | | |
| TVS-EMM1105 | Authorities Review and Comment of Technical Info AQMS Equipment | 56 | 50% | 28 29-Oct-18 A | 21-Aug-19 | | | | | | | |
| TVS-EMM1155 | Authorities Review and Comment of Technical Info MFSD | 56 | 50% | 28 26-Jul-18 A | 21-Aug-19 | | | | | | | |
| Tunnel and Road Lighting | ; System | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| TRLS-EMM1035 | Authorities Review and Comment of Technical Info Road Lighting Fitting | 56 | 50% | 28 09-Oct-18 A | 21-Aug-19 | | | | | | | |
| | | | | | | | | : | | : | <u> </u> | |
| | | | | 17/10 | | | | P 4/26 | Date | Revision | Checked A | \ppro\ |
| | | | | | | | | 1 4/20 | 20-Jul-19 | | | |
| | NORTHERN TUNNEL | | | | | | | | | | | |
| | THREE MONTHLY | / PROGF | RAMME / | AS OF 20 JUL 2019 |) | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

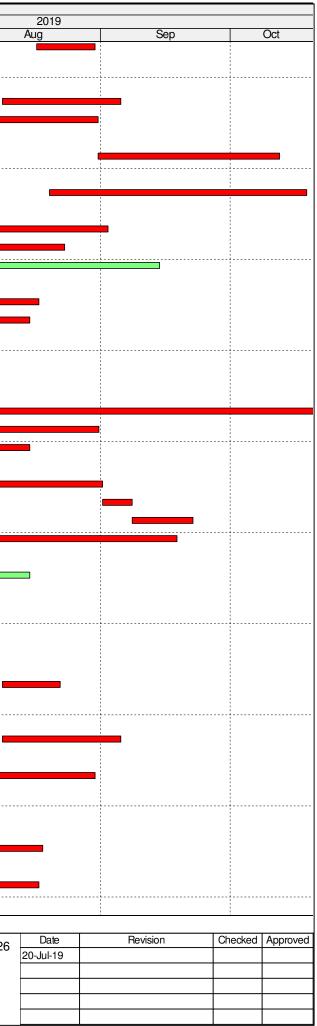
| | Activity | Duration | % Comp | | Finish | | | 0010 | | |
|----------------------------|--|--------------|--------|-------------------|------------|----|---|-------------|---------------------------------------|------------|
| | | (Days) | | Duration | | Ju | | 2019 Aug | Sep | Oct |
| CCMS, TCS and ELV System | n | I | | | | | | , | 000 | |
| ELV-EMM1020 | Authorities Review and Comment of Technical Info CMCS Equipment | 56 | 50% | 28 09-Oct-18 A | 21-Aug-19 | | | | | |
| ELV-EMM1040 | ER Review and Approval of Technical Info TCS Equipment | 40 | 85% | 6 28-Dec-18 A | <u> </u> | | | | | |
| ELV-EMM1050 | Authorities Review and Comment of Technical Info TCS Equipment | 56 | 50% | 28 09-Oct-18 A | | | | | | |
| ELV-EMM1073 | ER Review and Approval of Technical Info other ELV Equipment | 40 | 85% | | | | | | | |
| ELV-EMM1080 | Authorities Review and Comment of Technical Info other ELV Equipment | 56 | 50% | | | | | | | |
| Drawing Submission & App | | | 0070 | | | | | | | |
| Satellite Control Building | | | | | | | | | | |
| Individual Shop Drawing | | | | | | | | | | |
| SCB-ISD1010 | ER Review and Comment of SCB ISD 1st batch | 12 | 95% | 1 11-Aug-18 A | 20- Jul-19 | | | | | |
| SCB-ISD1010 | Preparation and Resubmission of SCB ISD 1st batch | 12 | 95% | 1 04-Jan-19 A | | | | | | |
| SCB-ISD1020 | | 7 | | 0 04-Jan-19 A | | | | | | |
| | ER Review and Approval of SCB ISD 1st batch | | 95% | | | | | | | |
| SCB-ISD1040 | Authorities Review and Comment of SCB ISD 1st batch | 28 | 50% | 14 10-Aug-18 A | | | | | · · · · · · · · · · · · · · · · · · · | |
| SCB-ISD1060 | ER Review and Comment of SCB ISD 2nd batch | 12 | 95% | 1 11-Aug-18 A | | | | | | |
| SCB-ISD1070 | Preparation and Resubmission of SCB ISD 2nd batch | 12 | 95% | 1 04-Jan-19 A | | | | | | |
| SCB-ISD1080 | ER Review and Approval of SCB ISD 2nd batch | 7 | 95% | 0 04-Jan-19 A | | | | _ | | |
| SCB-ISD1090 | Authorities Review and Comment of SCB ISD 2nd batch | 28 | 50% | 14 10-Aug-18 A | 05-Aug-19 | | | | | |
| Costom & Excise Departm | nent Building | | | | | | | | | |
| Individual Shop Drawing | 3 | | | | | | | | | |
| CEDB-ISD1040 | Authorities Review and Comment of C&EDB ISD 1st batch | 28 | 50% | 14 06-Sep-18 A | 05-Aug-19 | | | | | |
| CEDB-ISD1090 | Authorities Review and Comment of C&EDB ISD 2nd batch | 28 | 50% | 14 06-Sep-18 A | 05-Aug-19 | | | | | |
| South Ventilation Building | | | | | | | | | | |
| Individual Shop Drawing | Į. | | | | | | | | | |
| SVB-ISD1030 | ER Review and Approval of SVB ISD 1st batch | 7 | 50% | 4 08-Mar-19 A | 24-Jul-19 | | | | | |
| SVB-ISD1080 | ER Review and Approval of SVB ISD 2nd batch | 7 | 50% | 4 08-Mar-19 A | 24-Jul-19 | | | | | |
| Structural, Electrical & | Mechanical Drawing | | | | | | | | | |
| SVB-SEM2020 | Preparation and Resubmission of SVB SEM | 12 | 50% | 6 10-Apr-19 A | 26-Jul-19 | | | | | |
| SVB-SEM2030 | ER Review and Approval of SVB SEM | 7 | 0% | · · | 03-Aug-19 | | | I | | |
| Tunnel | | | | | | | | | | |
| Individual Shop Drawing | 7 | | | | | | | | | |
| TUN-ISD1060 | ER Review and Comment of Tunnel ISD 2nd batch | 30 | 85% | 5 16-Aug-18 A | 25. Jul-19 | | | | | |
| TUN-ISD1070 | Preparation and Resubmission of Tunnel ISD 2nd batch | 30 | 85% | 5 16-Feb-19 A | | | | | | |
| TUN-ISD1070 | ER Review and Approval of Tunnel ISD 2nd batch | | 85% | 2 29-Aug-18 A | | | | | | |
| TUN-ISD1080 | | 15 | | | | | | | | |
| | Authorities Review and Comment of Tunnel ISD 2nd batch | 28 | 50% | 14 16-Aug-18 A | | | | | | |
| TUN-ISD1110 | ER Review and Comment of Tunnel ISD 3rd batch | 30 | 0% | | 23-Aug-19 | | | | | |
| TUN-ISD1120 | Preparation and Resubmission of Tunnel ISD 3rd batch | 30 | 0% | | 28-Sep-19 | | | | | - |
| TUN-ISD1130 | ER Review and Approval of Tunnel ISD 3rd batch | 15 | 0% | | 18-Oct-19 | | | _ | | |
| TUN-ISD1140 | Authorities Review and Comment of Tunnel ISD 3rd batch | 28 | 50% | 14 10-Dec-18 A | | | | | | |
| TUN-ISD1160 | ER Review and Comment of Tunnel ISD 4th batch | 30 | 0% | | 23-Aug-19 | | | | | |
| TUN-ISD1170 | Preparation and Resubmission of Tunnel ISD 4th batch | 30 | 0% | v | 28-Sep-19 | | | | | - |
| TUN-ISD1180 | ER Review and Approval of Tunnel ISD 4th batch | 15 | 0% | 15 30-Sep-19 | 18-Oct-19 | | | | | |
| TUN-ISD1190 | Authorities Review and Comment of Tunnel ISD 4th batch | 28 | 50% | 14 31-Oct-18 A | 05-Aug-19 | | | | | |
| Fire Services Department | Building | | | | | | | | | |
| Individual Shop Drawing | | | | | | | | | | |
| FSDB-ISD1040 | Authorities Review and Comment of FSDB ISD 1st batch | 28 | 50% | 14 05-Sep-18 A | 05-Aug-19 | | | | | |
| FSDB-ISD1090 | Authorities Review and Comment of FSDB ISD 2nd batch | 28 | 50% | 14 05-Sep-18 A | 05-Aug-19 | | | | | |
| Vehicular Underpass | | | | | | | | | | |
| Individual Shop Drawing | | | | | | | | | | |
| | | | | | | ! | | | ! | |
| | | | | 017/10 | | | | Date | Revision | Checked Ap |
| | | CONTRACT N | | | | | F | 20-Jul-19 | | |
| | | | | BUILDING E&M WC | | | | | | |
| | THREE M | ONTHLY PROGF | RAMME | AS OF 20 JUL 2019 |) | | | | | |
| | | | | | | | | | | |

| | Activity | Duration (Days) | % Comp | Remaining Duration | | Finish | | 2019 | | | | |
|---|--|---------------------------------------|---------|-----------------------|--|-------------|-----|-------|-----------|----------|------------|--|
| | | (Days) | | | | | Jul | | Aug | Sep | Oc | |
| VU-ISD1080 | ER Review and Approval of Vehicular Underpass ISD 2nd batch | 7 | 50% | 4 | 19-May-19 A | 24-Jul-19 | | | | | | |
| VU-ISD1090 | Authorities Review and Comment of Vehicular Underpass ISD 2nd batch | 28 | 50% | 14 | 02-Apr-19 A | 05-Aug-19 | | | | | | |
| North Ventilation Building | g | | | | | | | | | | | |
| Individual Shop Drawing | ng | | | | | | | | | | | |
| NVB-ISD1090 | Authorities Review and Approval of NVB ISD - 2nd batch | 28 | 50% | 14 | 27-Sep-18 A | 05-Aug-19 | | | | | | |
| &M Procurement | | | | | | | | | | | | |
| Design Related Procruem | nent | | | | | | | | | | | |
| Toll Control Building | | | | | | | | | | | | |
| CCMS, TCS and EL | V System | | | | | | | | | | | |
| TCB-PO1150 | Place Order - TCS Equipment | 12 | 100% | 0 | 10-Jul-19 A | 02-Aug-19 A | | | | | | |
| &M Manufacture & Deliv | very | | | | | | | | | | | |
| Toll Control Building | | | | | | | | | | | | |
| MVAC System | | | | | | | | | | | | |
| TCB-MD1030 | Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit | 120 | 88.33% | 14 | 20-May-19 A | 02-Aug-19 | | | | | | |
| TCB-MD1050 | Manufacture & Delivery to HK - AHU & PAU | 90 | 75% | 23 | 27-Jun-19 A | 11-Aug-19 | | | | | | |
| Lift System | | | | | | | | | | | | |
| TCB-MD1000 | Manufacture & Delivery to HK - Lift System | 120 | 65% | 42 | 03-Apr-19 A | 30-Aug-19 | | | | | | |
| CCMS, TCS and ELV Sys | · · | | | | | - | | | | | | |
| TCB-MD1200 | Manufacture - CMCS Equipment | 62 | 80% | 12 | 20-Apr-19 A | 01-Aug-19 | | | | | | |
| TCB-MD1202 | FAT - CMCS Equipment | 7 | 0% | | 01-Aug-19 | _ | | | I | | | |
| TCB-MD1205 | Shipping to HK - CMCS Equipment | 14 | 0% | | | 22-Aug-19 | | | | | | |
| TCB-MD1210 | Manufacture - TCS Equipment | 82 | 5% | | 12-Jul-19 A | - | | | | | | |
| TCB-MD1212 | FAT - TCS Equipment | 14 | 0% | | | 26-Oct-19 | | | | | | |
| TCB-MD1220 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 34.94% | | 18-Jun-19 A | | | | | | | |
| Plumbing & Drainage S | | | 01.0170 | 0. | | | | | | | | |
| TCB-MD1110 | Manufacture & Delivery to HK - Sump Pump | 120 | 60% | 48 | 29-Mar-19 A | 05-Sep-19 | | | | | | |
| TCB-MD1120 | Manufacture & Delivery to HK - Hot Water System | 120 | 81.67% | | 2014 2017 2017 2017 2017 2017 2017 2017 2017 | • | | | | | | |
| TCB-MD1120 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 28.33% | | 20-May-19 A | | | | | | | |
| TCB-MD1130 | Manufacture & Delivery to HK - Unice (PD) Manufacture & Delivery to HK - Water Pump | | | | 20-May-19 A 29-Mar-19 A | - | | | | — | | |
| | Manufacture & Delivery to HK - Water Fump | 90 | 88.89% | 10 | 29-111a1-19 A | 29-Jul-19 | | | | | | |
| Electrical System | Manufacture - LV Switchboard | 00 | 04 100/ | F | 00 Amr 10 A | 04 14 10 | | | | | | |
| TCB-MD1060 | | 86 | 94.19% | | 02-Apr-19 A | | | | | | | |
| TCB-MD1062 | FAT - LV Switchboard | 10 | 0% | | 25-Jul-19 | 03-Aug-19 | | | | | | |
| TCB-MD1065 | Shipping to HK - LV Switchboard | 14 | 0% | | 04-Aug-19 | 17-Aug-19 | | | | | | |
| TCB-MD1070 | Manufacture - Generator | 118 | 86.44% | | 02-Apr-19 A | - | | _ | | | | |
| TCB-MD1072 | FAT - Generator | 4 | 0% | | - | 08-Aug-19 | | | • | | | |
| TCB-MD1075 | Shipping to HK - Generator | 28 | 0% | | 09-Aug-19 | 05-Sep-19 | | | | | | |
| TCB-MD1082 | FAT - UPS and Battery | 10 | 100% | | | 20-Jul-19 A | | | | _ | | |
| TCB-MD1085 | Shipping to HK - UPS and Battery | 42 | 0% | | | 30-Aug-19 | | | | | | |
| TCB-MD1090 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 60 | 95% | | 04-Mar-19 A | | | _ | | | | |
| TCB-MD1100 | Manufacture & Delivery to HK - LV Cables | 120 | 95% | | 20-Nov-18 A | | | | | <u></u> | <u></u> _ | |
| TCB-MD1280 | Manufacture & Delivery to HK - PV System Equipment | 60 | 0% | 60 | 20-Aug-19 | 18-Oct-19 | | | | | | |
| Fire Service System | | | | | | | | | | | | |
| TCB-MD1150 | Manufacture & Delivery to HK - FM200 | 150 | 60.67% | | 24-Dec-18 A | | | | | | | |
| TCB-MD1160 | Manufacture & Delivery to HK - AFA System | 100 | 91% | 9 | 02-Mar-19 A | 28-Jul-19 | | | | | | |
| Administration Building | | | | | | | | | | | | |
| Electrical System | | | | | | | | | | | | |
| ADB-MD1070 | Manufacture - LV Switchboard | 86 | 79.07% | 18 | 02-Apr-19 A | 06-Aug-19 | | | | | | |
| ADB-MD1072 | FAT - LV Switchboard | 10 | 0% | 10 | 07-Aug-19 | 16-Aug-19 | | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | | | * | | · | | |
| | | CONTRACT I | |)17/10 | | | | P 6/2 | 26 Date | Revision | Checked Ap | |
| NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS | | | | | | | | | 20-Jul-19 | | | |
| | | MONTHLY PROG | | | | | | | | | | |
| | | | | NU UI" 20 | 00L 2018 | , | | | | | | |

| | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | | |
|----------------------------|---|---------------------------------------|---------|-----------------------------|------------------------|-----------|---------|
| | | | | | ļ | Jul | |
| ADB-MD1075 | Shipping to HK - LV Switchboard | 14 | 0% | 14 17-Aug-19 | 30-Aug-19 | - | |
| ADB-MD1080 | Manufacture - Generator | 118 | 86.44% | 16 02-Apr-19 A | 04-Aug-19 | | |
| ADB-MD1082 | FAT - Generator | 4 | 0% | 4 05-Aug-19 | 08-Aug-19 | | |
| ADB-MD1085 | Shipping to HK - Generator | 28 | 0% | 28 09-Aug-19 | 05-Sep-19 | - | |
| ADB-MD1090 | Manufacture - UPS and Battery | 53 | 20% | 42 24-May-19 A | - | | |
| ADB-MD1092 | FAT - UPS and Battery | 10 | 100% | | 20-Jul-19 A | | - |
| ADB-MD1095 | Shipping to HK - UPS and Battery | 42 | 0% | 42 31-Aug-19 | 12-Oct-19 | | |
| ADB-MD1110 | Manufacture & Delivery to HK - LV Cables | 120 | 85.83% | 17 20-Nov-18 A | 05-Aug-19 | | |
| ADB-MD1310 | Manufacture & Delivery to HK - PV System Equipment | 60 | 0% | 60 20-Aug-19 | 18-Oct-19 | | |
| MVAC System | | | | | | | |
| ADB-MD1030 | Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit | 120 | 62.5% | 45 15-May-19 A | 02-Sep-19 | | |
| ADB-MD1040 | Manufacture & Delivery to HK - AHU & PAU | 90 | 61.11% | 35 25-May-19 A | 23-Aug-19 | | |
| ADB-MD1050 | Manufacture & Delivery to HK - Cooling Tower | 100 | 43% | 57 06-Mar-19 A | 14-Sep-19 | | |
| Fire Service System | | | | | | | |
| ADB-MD1160 | Manufacture & Delivery to HK - FM200 | 150 | 80.67% | 29 24-Dec-18 A | 17-Aug-19 | · · · · · | |
| ADB-MD1170 | Manufacture & Delivery to HK - AFA System | 100 | 73% | 27 02-Mar-19 A | 15-Aug-19 | | |
| ADB-MD1180 | Manufacture & Delivery to HK - FS Pump | 120 | 89.17% | 13 19-Mar-19 A | 01-Aug-19 | | |
| ADB-MD1190 | Manufacture & Delivery to HK - FR/ HR system | 90 | 85.56% | 13 02-Mar-19 A | 01-Aug-19 | | |
| ADB-MD1200 | Manufacture & Delivery to HK - LMCP (FS) | 60 | 78.33% | 13 20-May-19 A | 01-Aug-19 | | |
| Plumbing & Drainage S | | | | | U | | |
| ADB-MD1130 | Manufacture & Delivery to HK - Hot Water System | 120 | 20% | 96 04-Jun-19 A | 23-Oct-19 | | |
| ADB-MD1140 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 28.33% | 43 20-May-19 A | | | |
| ADB-MD1150 | Manufacture & Delivery to HK - Water Pump | 90 | 70% | 27 29-Mar-19 A | | | |
| CCMS and ELV System | | | | | 3 - | | |
| ADB-MD1210 | Manufacture - CMCS Equipment | 62 | 30% | 43 20-Apr-19 A | 01-Sep-19 | | |
| ADB-MD1212 | FAT - CMCS Equipment | 7 | 0% | 7 01-Sep-19 | 08-Sep-19 | | |
| ADB-MD1215 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 08-Sep-19 | 22-Sep-19 | | |
| ADB-MD1220 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 34.94% | 54 18-Jun-19 A | · · | | |
| Lift System | | | 0110170 | | | | |
| ADB-MD1000 | Manufacture & Delivery to HK - Lift System | 120 | 77.5% | 27 03-Apr-19 A | 15-Aug-19 | | |
| North Ventilation Building | | 120 | 11.070 | 27 00 / 01 10 / 10 | 10 Aug 10 | | |
| Electrical System | 5 | | | | | | |
| NVB-MD1025 | Shipping to HK - HV Switchboard | 14 | 10% | 13 19-Jun-19 A | 01-Δuα-19 | | i |
| NVB-MD1040 | Manufacture - LV Switchboard | 86 | 88.37% | 10 02-Apr-19 A | | | |
| NVB-MD1042 | FAT - LV Switchboard | 10 | 0% | 10 30-Jul-19 | 08-Aug-19 | | |
| NVB-MD1042 | Shipping to HK - LV Switchboard | 10 | 0% | 14 09-Aug-19 | 22-Aug-19 | | |
| NVB-MD1045 | Manufacture - Generator | 118 | 86.44% | - | 04-Aug-19 | | |
| NVB-MD1052 | FAT - Generator | 4 | 0% | 4 05-Aug-19 | 04-Aug-19 08-Aug-19 | | |
| NVB-MD1052 | Shipping to HK - Generator | 28 | 0% | 28 09-Aug-19 | 05-Sep-19 | | |
| | FAT - UPS and Battery | | | | · · | _ | |
| NVB-MD1062 | | 10 | 100% | | 20-Jul-19 A | | |
| NVB-MD1065 | Shipping to HK - UPS and Battery | 42 | 0% | 42 20-Jul-19 | 30-Aug-19 | | |
| NVB-MD1095 | Shipping to HK - LV Cables | 14 | 64.29% | 5 10-Jun-19 A | 24-JUI-19 | | |
| MVAC System | | | 00.075 | | 05 1 1 4 5 | | |
| NVB-MD1200 | Shipping to HK - Tunnel Ventilation Fan | 45 | 86.67% | 6 16-Jun-19 A | | | |
| NVB-MD1210 | Manufacture & Delivery to HK - Staircase Pressurization Fan | 30 | 0% | 30 20-Jul-19 | 18-Aug-19 | | |
| Fire Service System | | · · · · · · · · · · · · · · · · · · · | | | | | |
| NVB-MD1130 | Manufacture & Delivery to HK - FM200 | 150 | 80.67% | 29 24-Dec-18 A | 17-Aug-19 | | |
| Plumbing & Drainage S | System | | | | | | |

CONTRACT NO. HY2017/10 NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS THREE MONTHLY PROGRAMME AS OF 20 JUL 2019

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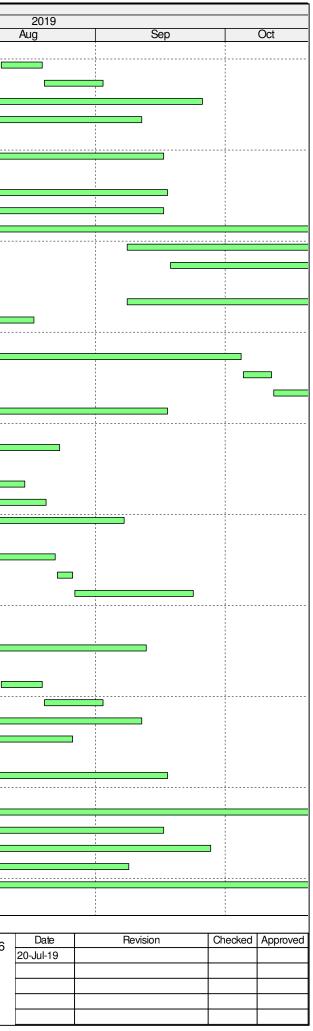
| ID | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | | |
|----------------------------|---|--------------------|----------------|-----------------------------|-------------|-------|----------|
| NVB-MD1100 | Manufacture & Delivery to HK - Sump Pump | 120 | 51.67% | 58 29-Mar-19 A | 15 Son 10 | Jul | |
| | | | | | | | |
| NVB-MD1110 NVB-MD1120 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 28.33% | 43 20-May-19 A | - | | |
| | Manufacture & Delivery to HK - Water Pump | 90 | 88.89% | 10 29-Mar-19 A | 29-Jul-19 | | 1 |
| CCMS and ELV System | Manufacture OMOC Environment | CO | 00 770/ | 0 00 Arr 10 A | 01 14 10 | | |
| NVB-MD1220 | Manufacture - CMCS Equipment | 62 | 96.77% | 2 20-Apr-19 A | | | |
| NVB-MD1222 | FAT - CMCS Equipment | / | 0% | 7 22-Jul-19 | 28-Jul-19 | | |
| NVB-MD1225 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 29-Jul-19 | 11-Aug-19 | | |
| NVB-MD1230 | Manufacture - other ELV Equipment | 62 | 69.13% | 19 18-Jun-19 A | 15-Aug-19 | | |
| NVB-MD1232 | FAT - other ELV Equipment | 7 | 0% | 7 15-Aug-19 | 22-Aug-19 | | |
| NVB-MD1235 | Shipping to HK - other ELV Equipment | 14 | 0% | 14 22-Aug-19 | 05-Sep-19 | | |
| Maintenance Depot | | | | | | | |
| Electrical System | | | 00 4404 | | | | |
| MD-MD1010 | Manufacture - Generator | 118 | 86.44% | 16 02-Apr-19 A | - | | |
| MD-MD1012 | FAT - Generator | 4 | 0% | 4 05-Aug-19 | 08-Aug-19 | | |
| MD-MD1015 | Shipping to HK - Generator | 28 | 0% | 28 09-Aug-19 | 05-Sep-19 | | |
| MD-MD1020 | Manufacture - LV Switchboard | 86 | 79.07% | 18 02-Apr-19 A | | | |
| MD-MD1022 | FAT - LV Switchboard | 10 | 0% | 10 07-Aug-19 | 16-Aug-19 | | |
| MD-MD1025 | Shipping to HK - LV Switchboard | 14 | 0% | 14 17-Aug-19 | 30-Aug-19 | | |
| MD-MD1030 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 60 | 91.67% | 5 04-Mar-19 A | 24-Jul-19 | 1 | |
| MD-MD1040 | Manufacture & Delivery to HK - LV Cables | 120 | 75.83% | 29 20-Nov-18 A | 17-Aug-19 | | |
| MVAC System | | | | | | | |
| MD-MD1000 | Manufacture & Delivery to HK - AHU & PAU | 90 | 53.33% | 42 25-May-19 A | 30-Aug-19 | | |
| Fire Service System | | | | | | | |
| MD-MD1080 | Manufacture & Delivery to HK - FM200 | 150 | 80.67% | 29 24-Dec-18 A | 17-Aug-19 | | |
| MD-MD1090 | Manufacture & Delivery to HK - FS Pump | 120 | 89.17% | 13 19-Mar-19 A | 01-Aug-19 | | |
| MD-MD1100 | Manufacture & Delivery to HK - AFA System | 100 | 82% | 18 02-Mar-19 A | 06-Aug-19 | | |
| MD-MD1110 | Manufacture & Delivery to HK - LMCP (FS) | 60 | 78.33% | 13 20-May-19 A | 01-Aug-19 | | — |
| MD-MD1120 | Manufacture & Delivery to HK - FR/ HR system | 90 | 85.56% | 13 02-Mar-19 A | 01-Aug-19 | | — |
| CCMS and ELV System | | | | | | | |
| MD-MD1130 | Manufacture - CMCS Equipment | 62 | 30% | 43 20-May-19 A | 01-Sep-19 | ····· | |
| MD-MD1132 | FAT - CMCS Equipment | 7 | 0% | 7 01-Sep-19 | 08-Sep-19 | | |
| MD-MD1135 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 08-Sep-19 | 22-Sep-19 | | |
| MD-MD1140 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 34.94% | 54 18-Jun-19 A | 18-Sep-19 | | |
| Plumbing & Drainage Sy | rstem | II | I | | | | |
| MD-MD1050 | Manufacture & Delivery to HK - Sump Pump | 120 | 51.67% | 58 29-Mar-19 A | 15-Sep-19 | | · |
| MD-MD1060 | Manufacture & Delivery to HK - Water Pump | 90 | 70% | 27 29-Mar-19 A | 15-Aug-19 | | |
| MD-MD1070 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 28.33% | 43 20-May-19 A | 31-Aug-19 | | |
| Satellite Control Building | | | | | Ū | | |
| SCB-MD1175 | Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment | 45 | 60% | 18 20-Jun-19 A | 06-Aug-19 | | |
| SCB-MD1185 | Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment | 45 | 50% | 23 27-Jun-19 A | - | | |
| SCB-MD1195 | Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment | 45 | 40% | | 15-Aug-19 | | |
| Electrical System | | | | | | | |
| SCB-MD1020 | Manufacture - Generator | 118 | 55.93% | 52 17-Apr-19 A | 09-Sep-19 | | |
| SCB-MD1022 | FAT - Generator | 4 | 0% | 4 10-Sep-19 | 13-Sep-19 | | |
| SCB-MD1022 | Shipping to HK - Generator | 28 | 0% | 28 14-Sep-19 | 11-Oct-19 | | |
| SCB-MD1030 | Manufacture - UPS and Battery | 53 | 75.47% | 13 26-Mar-19 A | | | |
| SCB-MD1030 | FAT - UPS and Battery | 10 | 100% | 0 15-Jul-19 A | 20-Jul-19 A | | |
| SCB-MD1032 | Shipping to HK - UPS and Battery | 42 | 0% | 42 02-Aug-19 | 12-Sep-19 | | |
| | | 72 | 0 /0 | TL VL-AUY-19 | | | |

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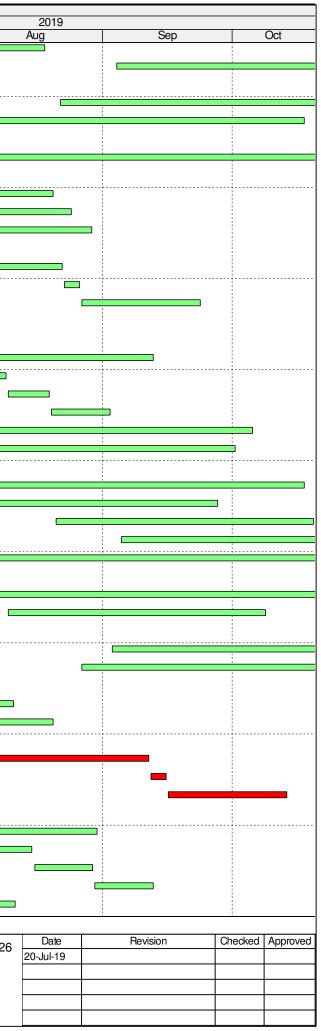
| | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | Jul | |
|-------------------------|---|--------------------|--------|-----------------------------|---------------------------------------|-----|----------|
| SCB-MD1040 | Manufacture - LV Switchboard | 86 | 75.58% | 21 17-Apr-19 A | 09-Aug-19 | | |
| SCB-MD1042 | FAT - LV Switchboard | 10 | 0% | 10 10-Aug-19 | 19-Aug-19 | | |
| SCB-MD1045 | Shipping to HK - LV Switchboard | 14 | 0% | 14 20-Aug-19 | 02-Sep-19 | | |
| SCB-MD1050 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 60 | 0% | 60 28-Jul-19 | 25-Sep-19 | | |
| SCB-MD1060 | Manufacture & Delivery to HK - LV Cables | 120 | 55% | 54 20-Nov-18 A | 11-Sep-19 | | 1 |
| MVAC System | | | | | | | |
| SCB-MD1010 | Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit | 120 | 50.83% | 59 25-May-19 A | 16-Sep-19 | | |
| Fire Service System | | | | | | | |
| SCB-MD1100 | Manufacture & Delivery to HK - FM200 | 150 | 60% | 60 20-May-19 A | 17-Sep-19 | | |
| SCB-MD1110 | Manufacture & Delivery to HK - FS Pump | 120 | 50.83% | 59 19-Mar-19 A | 16-Sep-19 | | i |
| SCB-MD1120 | Manufacture & Delivery to HK - AFA System | 100 | 0% | 100 28-Jul-19 | 04-Nov-19 | | |
| SCB-MD1130 | Manufacture & Delivery to HK - LMCP (FS) | 60 | 0% | 60 08-Sep-19 | 06-Nov-19 | | |
| SCB-MD1140 | Manufacture & Delivery to HK - FR/ HR system | 90 | 0% | 90 18-Sep-19 | 16-Dec-19 | | |
| Plumbing & Drainage S | /stem | | | |] | | |
| SCB-PO1120 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 0% | 60 08-Sep-19 | 06-Nov-19 | | |
| SCB-PO1130 | Manufacture & Delivery to HK - Water Pump | 90 | 67.78% | 29 29-Mar-19 A | 17-Aug-19 | | |
| CCMS and ELV System | | | | | | | |
| SCB-MD1150 | Manufacture - CMCS Equipment | 62 | 0% | 62 04-Aug-19 | 04-Oct-19 | | |
| SCB-MD1152 | FAT - CMCS Equipment | 7 | 0% | 7 05-Oct-19 | 11-Oct-19 | | |
| SCB-MD1155 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 12-Oct-19 | 25-Oct-19 | | |
| SCB-MD1160 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 36.14% | 53 27-Jun-19 A | 17-Sep-19 | | |
| Lift System | | | | | | | |
| SCB-MD1000 | Manufacture & Delivery to HK - Lift System | 120 | 70.83% | 35 03-Apr-19 A | 23-Aug-19 | | |
| Costom & Excise Departm | | | | | 3 - | | |
| CEDB-MD1195 | Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment | 45 | 40% | 27 20-Jun-19 A | 15-Aug-19 | | |
| CEDB-MD1205 | Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment | 45 | 30% | | 20-Aug-19 | | |
| CEDB-MD1215 | Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment | 45 | 0% | 45 25-Jul-19 | 07-Sep-19 | | |
| Electrical System | | | | | | | |
| CEDB-MD1020 | Manufacture - Generator | 118 | 71.19% | 34 17-Apr-19 A | 22-Aug-19 | | |
| CEDB-MD1022 | FAT - Generator | 4 | 0% | 4 23-Aug-19 | 26-Aug-19 | | |
| CEDB-MD1025 | Shipping to HK - Generator | 28 | 0% | 28 27-Aug-19 | 23-Sep-19 | | |
| CEDB-MD1030 | Manufacture - UPS and Battery | 53 | 75.47% | 13 26-Mar-19 A | | | <u>-</u> |
| CEDB-MD1032 | FAT - UPS and Battery | 10 | 100% | | 20-Jul-19 A | | |
| CEDB-MD1035 | Shipping to HK - UPS and Battery | 42 | 0% | 42 02-Aug-19 | 12-Sep-19 | | |
| CEDB-MD1040 | Manufacture - LV Switchboard | 86 | 75.58% | | 09-Aug-19 | | |
| CEDB-MD1042 | FAT - LV Switchboard | 10 | 0% | 10 10-Aug-19 | 19-Aug-19 | | ſ |
| CEDB-MD1045 | Shipping to HK - LV Switchboard | 14 | 0% | 14 20-Aug-19 | 02-Sep-19 | | |
| CEDB-MD1050 | Manufacture & Delivery to HK - LV Cables | 120 | 55% | 54 20-Nov-18 A | • | | |
| CEDB-MD1060 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 38 | 0% | 38 20-Jun-19 A | · · · · · · · · · · · · · · · · · · · | | |
| MVAC System | | | 0,10 | | Loring io | | |
| CEDB-MD1010 | Manufacture & Delivery to HK - AHU & PAU | 60 | 0% | 60 20-Jul-19 | 17-Sep-19 | | |
| Fire Service System | | | 0.10 | | | | |
| CEDB-MD1090 | Manufacture & Delivery to HK - FM200 | 120 | 0% | 120 20-Jul-19 | 16-Nov-19 | | |
| CEDB-MD1090 | Manufacture & Delivery to HK - FS Pump | 120 | 50.83% | 59 19-Mar-19 A | | | |
| CEDB-MD1100 | Manufacture & Delivery to HK - AFA System | 70 | 0% | 70 20-Jun-19 A | · · · · · · · · · · · · · · · · · · · | | |
| CEDB-MD11120 | Manufacture & Delivery to HK - LMCP (FS) | 51 | 0% | 51 20-Jun-19 A | - | | |
| CEDB-MD1120 | Manufacture & Delivery to HK - FR/ HR system | 90 | 0% | 90 24-Jul-19 | 21-Oct-19 | | |
| | manalation a bonvory to fire if the fire system | 30 | 0 /0 | 50 2- 0u-13 | | | |

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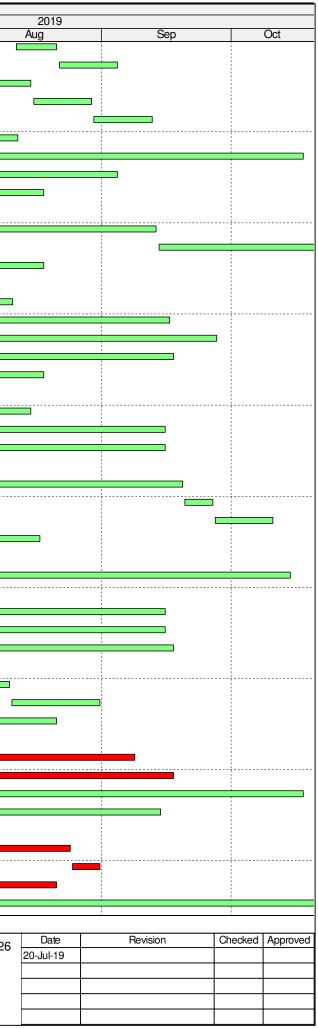
| D | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | |
|------------------------------------|---|--------------------|----------|------------------------------|-------------|----------|
| CEDB-MD1070 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 50% | 30 20-Jun-19 A | 19 Aug 10 | Jul |
| CEDB-MD1070 | Manufacture & Delivery to HK - Water Pump | 90 | 34.44% | 59 29-Mar-19 A | 0 | |
| | Manufacture & Delivery to HK - Water Fump | 90 | 34.44 /0 | 59 29-Mai-19 A | 01-100-19 | |
| CCMS and ELV System CEDB-MD1170 | Manufacture - CMCS Equipment | 60 | 09/ | 60 00 Aug 10 | 22 Oct 10 | |
| | | 62 | 0% | 62 22-Aug-19 83 27-Jul-19 | 22-Oct-19 | |
| CEDB-MD1180 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 0% | 83 27-Jul-19 | 17-Oct-19 | |
| Lift System | Manufacture & Daliver to LIK Lift Outer | 100 | 00/ | 100 00 101 10 | 10 Nov 10 | |
| | Manufacture & Delivery to HK - Lift System | 120 | 0% | 120 20-Jul-19 | 16-Nov-19 | |
| Fire Services Department B | | 45 | 000/ | 00 00 km 10 A | 00 4 | |
| FSDB-MD1155 | Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment | 45 | 30% | 32 20-Jun-19 A | - | |
| FSDB-MD1165 | Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment | 45 | 20% | 36 27-Jun-19 A | - | |
| FSDB-MD1175 | Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment | 45 | 10% | 41 13-Jul-19 A | 29-Aug-19 | |
| Electrical System | | 110 | 74.400/ | | 00.4 | |
| FSDB-MD1000 | Manufacture - Generator | 118 | 71.19% | 34 17-Apr-19 A | | |
| FSDB-MD1002 | FAT - Generator | 4 | 0% | 4 23-Aug-19 | 26-Aug-19 | |
| FSDB-MD1005 | Shipping to HK - Generator | 28 | 0% | 28 27-Aug-19 | 23-Sep-19 | |
| FSDB-MD1010 | Manufacture - UPS and Battery | 53 | 75.47% | 13 26-Mar-19 A | - | |
| FSDB-MD1012 | FAT - UPS and Battery | 10 | 100% | | 20-Jul-19 A | |
| FSDB-MD1015 | Shipping to HK - UPS and Battery | 42 | 0% | 42 02-Aug-19 | 12-Sep-19 | |
| FSDB-MD1020 | Manufacture - LV Switchboard | 86 | 75.58% | · · | 0 | |
| FSDB-MD1022 | FAT - LV Switchboard | 10 | 0% | | 19-Aug-19 | |
| FSDB-MD1025 | Shipping to HK - LV Switchboard | 14 | 0% | 14 20-Aug-19 | 02-Sep-19 | |
| FSDB-MD1030 | Manufacture & Delivery to HK - LV Cables | 120 | 35.83% | 77 20-Nov-18 A | 05-Oct-19 | |
| FSDB-MD1040 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 60 | 0% | 60 03-Aug-19 | 01-Oct-19 | |
| Fire Service System | | | | | | |
| FSDB-MD1090 | Manufacture & Delivery to HK - FS Pump | 120 | 25% | 90 20-Jun-19 A | 17-Oct-19 | |
| FSDB-MD1100 | Manufacture & Delivery to HK - AFA System | 100 | 30% | 70 20-Jun-19 A | 27-Sep-19 | |
| FSDB-MD1110 | Manufacture & Delivery to HK - LMCP (FS) | 60 | 0% | 60 21-Aug-19 | 19-Oct-19 | |
| FSDB-MD1120 | Manufacture & Delivery to HK - FR/ HR system | 90 | 0% | 90 05-Sep-19 | 03-Dec-19 | |
| FSDB-MD1185 | Manufacture & Delivery to HK - FM200 | 150 | 20% | 120 20-Jun-19 A | 16-Nov-19 | |
| Plumbing & Drainage Syst | tem | | | | | |
| FSDB-MD1060 | Manufacture & Delivery to HK - Water Pump | 90 | 0% | 90 06-Aug-19 | 03-Nov-19 | |
| FSDB-MD1070 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 0% | 60 10-Aug-19 | 08-Oct-19 | |
| CCMS and ELV System | | | | | , | |
| FSDB-MD1130 | Manufacture - CMCS Equipment | 62 | 0% | 62 03-Sep-19 | 03-Nov-19 | |
| FSDB-MD1140 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 0% | 83 27-Aug-19 | 17-Nov-19 | |
| South Ventilation Building | | | | | | |
| SVB-MD1235 | Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment | 45 | 50% | 23 20-Jun-19 A | 11-Aug-19 | |
| SVB-MD1245 | Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment | 45 | 30% | 32 04-Jul-19 A | 20-Aug-19 | |
| Electrical System | | | | | | |
| SVB-MD1000 | Manufacture - Generator | 118 | 54.24% | 54 17-Apr-19 A | 11-Sep-19 | |
| SVB-MD1002 | FAT - Generator | 4 | 0% | 4 12-Sep-19 | 15-Sep-19 | |
| SVB-MD1005 | Shipping to HK - Generator | 28 | 0% | 28 16-Sep-19 | 13-Oct-19 | |
| SVB-MD1012 | FAT - UPS and Battery | 10 | 100% | 0 15-Jul-19 A | 20-Jul-19 A | |
| SVB-MD1015 | Shipping to HK - UPS and Battery | 42 | 0% | 42 20-Jul-19 | 30-Aug-19 | |
| SVB-MD1020 | Manufacture - HV/LV Transformer | 92 | 70.65% | 27 16-May-19 A | | |
| SVB-MD1022 | FAT - HV/LV Transformer | 14 | 0% | 14 16-Aug-19 | 29-Aug-19 | |
| SVB-MD1025 | Shipping to HK - HV/LV Transformer | 14 | 0% | 14 30-Aug-19 | 12-Sep-19 | |
| SVB-MD1030 | Manufacture - LV Switchboard | 86 | 73.26% | 23 17-Apr-19 A | | |
| | | | - | | | <u> </u> |

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| ID | | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | | |
|----|---------------------------|--|--------------------|----------|-----------------------------|-----------|-----|---|
| | | | (Days) | | Duration | | Jul | |
| | SVB-MD1032 | FAT - LV Switchboard | 10 | 0% | 10 12-Aug-19 | 21-Aug-19 | | |
| | SVB-MD1035 | Shipping to HK - LV Switchboard | 14 | 0% | 14 22-Aug-19 | 04-Sep-19 | | |
| | SVB-MD1040 | Manufacture - HV Switchboard | 92 | 70.65% | 27 16-May-19 A | 15-Aug-19 | | |
| | SVB-MD1042 | FAT - HV Switchboard | 14 | 0% | 14 16-Aug-19 | 29-Aug-19 | | |
| | SVB-MD1045 | Shipping to HK - HV Switchboard | 14 | 0% | 14 30-Aug-19 | 12-Sep-19 | | |
| | SVB-MD1050 | Manufacture & Delivery to HK - HV Cables | 120 | 80% | 24 20-May-19 A | 12-Aug-19 | | |
| | SVB-MD1060 | Manufacture & Delivery to HK - Busduct | 120 | 25% | 90 20-Jun-19 A | 17-Oct-19 | | |
| | SVB-MD1070 | Manufacture & Delivery to HK - LV Cables | 120 | 60.83% | 47 20-Nov-18 A | 04-Sep-19 | | |
| | SVB-MD1080 | Manufacture & Delivery to HK - MCB & MCCB and Distribution Board | 60 | 50% | 30 20-Jun-19 A | 18-Aug-19 | | |
| P | MVAC System | | | | | | | |
| | SVB-MD1170 | Manufacture - Tunnel Ventilation Fan | 180 | 68.89% | 56 17-May-19 A | 13-Sep-19 | | · |
| | SVB-MD1175 | Shipping to HK - Tunnel Ventilation Fan | 45 | 0% | 45 14-Sep-19 | 28-Oct-19 | | |
| | SVB-MD1180 | Manufacture & Delivery to HK - Staircase Pressurization Fan | 60 | 50% | 30 20-Jun-19 A | 18-Aug-19 | | |
| F | Fire Service System | | | | | | | |
| | SVB-MD1120 | Manufacture & Delivery to HK - FM200 | 150 | 85% | 23 20-May-19 A | 11-Aug-19 | | |
| | SVB-MD1130 | Manufacture & Delivery to HK - FS Pump | 120 | 50.83% | 59 19-Mar-19 A | | | |
| | SVB-MD1140 | Manufacture & Delivery to HK - AFA System | 100 | 30% | 70 20-Jun-19 A | • | | |
| | SVB-MD1150 | Manufacture & Delivery to HK - FR/ HR system | 90 | 33.33% | 60 20-Jun-19 A | · · | | |
| | SVB-MD1160 | Manufacture & Delivery to HK - LMCP (FS) | 60 | 50% | 30 20-Jun-19 A | · · | | 1 |
| | Plumbing & Drainage Sy | | | | | g | | |
| | SVB-MD1100 | Manufacture & Delivery to HK - Water Pump | 90 | 70% | 27 29-Mar-19 A | 15-Aug-19 | | |
| | SVB-MD1110 | Manufacture & Delivery to HK - LMCP (PD) | 60 | 3.33% | 58 20-Jun-19 A | | | |
| | SVB-MD1255 | Manufacture & Delivery to HK - Sump Pump | 120 | 51.67% | 58 29-Mar-19 A | · · | | |
| | CCMS and ELV System | | 120 | 51.07 /6 | 30 23 Mai 137 | | | |
| | SVB-MD1200 | Manufacture - CMCS Equipment | 62 | 0% | 62 20-Jul-19 | 19-Sep-19 | | 1 |
| | SVB-MD1200 | FAT - CMCS Equipment | 7 | 0% | 7 20-Sep-19 | 26-Sep-19 | | |
| | SVB-MD1202 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 27-Sep-19 | 10-Oct-19 | | |
| | SVB-MD1203 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 73.49% | 22 18-Jun-19 A | | | |
| | | | 00 | 73.49% | 22 10-Juli-19 A | 17-Aug-19 | | |
| | Lift System SVB-MD1190 | Manufactura & Dalivary to HK Lift System | 100 | 07 E9/ | 97 17 Jun 10 A | 14 Oct 10 | | |
| | | Manufacture & Delivery to HK - Lift System | 120 | 27.5% | 87 17-Jun-19 A | 14-001-19 | | |
| | hicular Underpass | Mary factore & Delivery to LWC, Ourse During | 100 | E1 070/ | E0 00 Ame 10 A | 15 Oct 10 | | |
| | VU-MD1030 | Manufacture & Delivery to HK - Sump Pump | 120 | 51.67% | 58 02-Apr-19 A | 15-Sep-19 | | |
| | VU-MD1040 | Manufacture & Delivery to HK - Water Pump | 90 | 35.56% | 58 20-May-19 A | | | 1 |
| | VU-MD1050 | Manufacture & Delivery to HK - Gas detection | 60 | 0% | 60 20-Jul-19 | 17-Sep-19 | | |
| | VU-MD1060 | Manufacture - CMCS Equipment | 62 | 75.81% | 15 20-May-19 A | | | |
| | VU-MD1062 | FAT - CMCS Equipment | 7 | 0% | 7 04-Aug-19 | 10-Aug-19 | | |
| | VU-MD1065 | Shipping to HK - CMCS Equipment | 21 | 0% | 21 11-Aug-19 | 31-Aug-19 | | |
| | VU-MD1070 | Manufacture & Delivery to HK - other ELV Equipment | 90 | 71.11% | 26 18-Jun-19 A | 21-Aug-19 | | |
| | nnel | | | | | | | |
| | TUN-MD1006 | Manufacture - Tunnel Lighting System (3rd Batch) | 90 | 43.33% | 51 20-May-19 A | | | |
| | TUN-MD1009 | Manufacture - Tunnel Lighting System (4th Batch) | 90 | 33.33% | 60 20-Jun-19 A | · · | | |
| | TUN-MD1015 | Manufacture & Delivery to HK - Gas detection | 90 | 0% | 90 20-Jul-19 | 17-Oct-19 | | |
| | TUN-MD1030 | Manufacture & Delivery to HK - FS Pump | 60 | 5% | 57 20-Jul-19 A | 14-Sep-19 | | |
| | TUN-MD1040 | Manufacture - CMCS Equipment | 62 | 75.81% | 15 20-May-19 A | _ | | |
| | TUN-MD1042 | FAT - CMCS Equipment | 21 | 0% | 21 04-Aug-19 | 24-Aug-19 | | |
| | TUN-MD1045 | Shipping to HK - CMCS Equipment | 7 | 0% | 7 25-Aug-19 | 31-Aug-19 | | |
| | TUN-MD1050 | Manufacture & Delivery to HK - other ELV Equipment | 90 | 71.11% | 26 18-Jun-19 A | 21-Aug-19 | | |
| | TUN-MD1060 | Manufacture & Delivery to HK - Sump Pump | 120 | 0% | 120 20-Jul-19 | 16-Nov-19 | | |

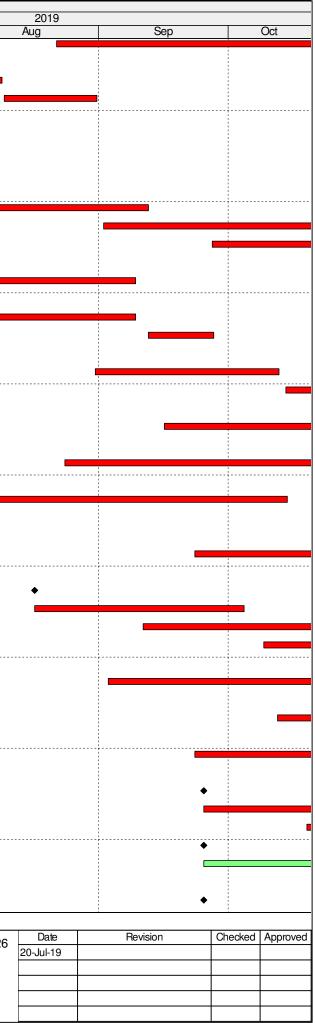
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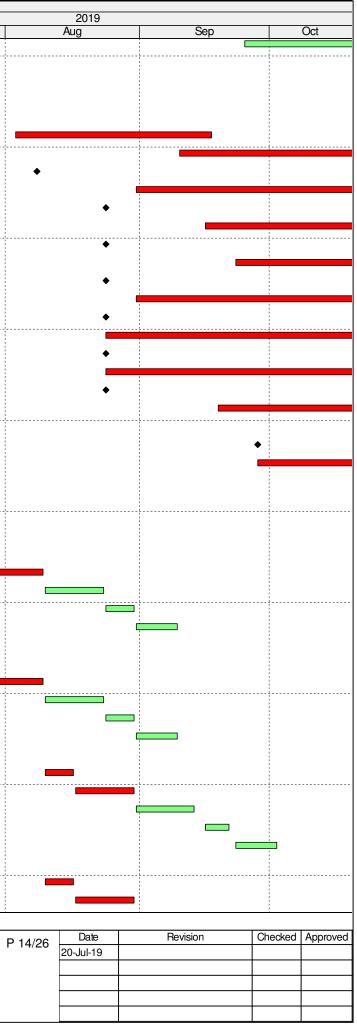
| | Activity | Duration | % Comp | | Finish | | | 2019 | | |
|----------------------------------|--|------------------|--------|---------------------------------------|-------------|-----|------|-----------|----------|-------------|
| | | (Days) | | Duration | | Jul | | Aug | Sep | Oct |
| TUN-MD1070 | Manufacture - AQMS Equipment | 69 | 70% | 21 20-May-19 A | 09-Aug-19 | | | | • | |
| TUN-MD1080 | FAT - AQMS Equipment | 14 | 0% | 14 09-Aug-19 | 23-Aug-19 | | | | | |
| TUN-MD1090 | Shipping to HK - AQMS Equipment | 7 | 0% | 7 23-Aug-19 | 30-Aug-19 | | | | | |
| Approach Road | | | | | | | | | | |
| AR-MD1000 | Manufacture & Delivery to HK - Road Lighting Fitting | 90 | 80% | 18 21-Mar-19 A | 06-Aug-19 | | | l | | |
| AR-MD1010 | Manufacture - CMCS Equipment | 62 | 75.81% | 15 20-May-19 A | 03-Aug-19 | | | | | |
| AR-MD1015 | FAT - CMCS Equipment | 7 | 0% | 7 04-Aug-19 | 10-Aug-19 | | | | | |
| AR-MD1018 | Shipping to HK - CMCS Equipment | 14 | 0% | 14 11-Aug-19 | 24-Aug-19 | | | | | |
| AR-MD1020 | Manufacture & Delivery to HK - other ELV Equipment | 83 | 73.49% | 22 18-Jun-19 A | 17-Aug-19 | | | | | |
| ey Date 1 - Toll Control E | Building (TCB) & TCSS Provision | | | | | | | | | |
| ABWF Works (for All) | | | | | | | | | | |
| ATCB1010 | Door and Window Frames | 82 | 0% | 82 04-Mar-19 A | 26-Oct-19 | | | | | |
| ATCB1052 | ABWF Works to Office and Corridors 2/F | 152 | 98.03% | 3 12-Apr-19 A | 23-Jul-19 | 1 | | | | |
| ATCB1080 | ABWF Works to Toilets G/F | 163 | 94.48% | 9 27-Feb-19 A | 30-Jul-19 | | | | | |
| ATCB1081 | ABWF Works to Toilets 1/F | 163 | 94.48% | 9 01-Mar-19 A | 30-Jul-19 | | | | | |
| ATCB1082 | ABWF Works to Toilets 2/F | 163 | 87.12% | 21 12-Apr-19 A | 13-Aug-19 | | | | | |
| ATCB1110 | Waterproofing and Roofing | 47 | 93.62% | 3 14-Jun-19 A | 23-Jul-19 | | - | | | |
| ATCB1120 | External Cladding and Wall Plastering | 94 | 77.66% | 21 01-Apr-19 A | 13-Aug-19 | | | | | |
| ey Date <u>4 - E&M Works</u> | in Vehicular Underpass Area & TCSS Provision | | | , , , , , , , , , , , , , , , , , , , | · | | | | | |
| E&M Works | | | | | | | | | | |
| VU210 | KD4 Achieved | 0 | 100% | 0 | 12-Jul-19 A | • | | | | |
| ey Date 2 - Administrati | ion Building, Maintenance Depot, Kiosk N2, TCSS Provision | | | | | | | | | |
| Administration Building | (ADB) | | | | | | | | | |
| Building Structure | | | | | | | | | | |
| ADB210 | Top Roof | 11 | 100% | 0 20-Jun-19 A | 02-Jul-19 A | | | | | |
| ABWF Works (for All) | | | | | | | | | | |
| AADB1130 | Blockwork Walls | 25 | 15% | 21 03-Jul-19 A | 14-Aug-19 | | | | | |
| AADB1140 | Door and Window Frames | 19 | 0% | 19 20-Jul-19 | 10-Aug-19 | | | | | |
| AADB1150 | ABWF Works to Plant Rooms G/F | 52 | 40.38% | 31 07-Jun-19 A | 24-Aug-19 | | 1 | | | |
| AADB1151 | ABWF Works to Plant Rooms 1/F | 52 | 0% | 52 20-Jul-19 | 19-Sep-19 | | 1 | | | |
| AADB1160 | ABWF Works to Office and Corridors G/F | 126 | 0% | 126 20-Jul-19 | 17-Dec-19 | | | | | |
| AADB1161 | ABWF Works to Office and Corridors 1/F | 126 | 0% | 126 03-Aug-19 | 03-Jan-20 | | | | | |
| AADB1170 | ABWF Works to Toilets G/F | 132 | 0% | 132 20-Jul-19 | 24-Dec-19 | | | | | |
| AADB1171 | ABWF Works to Toilets 1/F | 132 | 0% | 132 03-Aug-19 | 10-Jan-20 | | | | | |
| AADB1180 | Waterproofing and Roofing | 48 | 0% | 48 30-Jul-19 | 25-Sep-19 | | | | 1 | |
| AADB1190 | External Cladding and Wall Plastering | 98 | 0% | 98 30-Jul-19 | 25-Nov-19 | | | | | |
| Provision for TCSS Inst | allation | | | | | | | | | |
| ADB250 | Cable Containment Installation to enable TCSS installation | 74 | 5% | 70 09-Jul-19 A | 14-Oct-19 | | | | | |
| Maintenance Depot | | | | | | | | | | |
| ABWF Works (for All) | | | | | | | | | | |
| AMD1000 | Blockwork Walls | 16 | 12.5% | 14 06-Jun-19 A | 05-Aug-19 | | | | | |
| AMD1010 | Door and Window Frames | 10 | 0% | | 31-Jul-19 | | | | | |
| AMD1020 | ABWF Works to Plant Rooms | 58 | 0% | | 26-Sep-19 | | | | | |
| AMD1030 | ABWF Works to Office and Corridors | 132 | 0% | | 24-Dec-19 | | 1 | | | |
| AMD1040 | ABWF Works to Toilets | 144 | 0% | 144 20-Jul-19 | 10-Jan-20 | | 1 | | | |
| AMD1050 | Waterproofing and Roofing | 51 | 0% | 51 30-Jul-19 | 27-Sep-19 | | | | | |
| AMD1060 | External Cladding and Wall Plastering | 98 | 0% | | 23-Nov-19 | | | | | |
| Provision for TCSS Inst | | | | | | | | | | |
| | | | | | | | | | 1 | : |
| | | | | 017/10 | | | P 12 | Date | Revision | Checked App |
| | | | | | | | F 12 | 20-Jul-19 | | |
| | | RN TUNNEL CONNE | | | | | | | | |
| | THRI | EE MONTHLY PROGE | RAMME | AS OF 20 JUL 2019 |) | | | | | |
| | | | | | | | | | | I I |

| | Activity | Duration (Days) | % Comp | Remaining Duration | | Finish | | Jul | |
|---------------------------|--|--------------------|-----------|-----------------------|-------------|-----------|---|-----|---|
| MD210 | Cable Containment Installation to enable TCSS installation | 62 | 5% | 59 | 18-Jul-19 A | 01-Nov-19 | | | _ |
| Kiosk N2 | | | | | | | | | |
| N2-130 | ABWF Works to enable TCSS installation | 18 | 0% | 18 | 20-Jul-19 | 09-Aug-19 | | | |
| N2-140 | Cable Containment Installation to enable TCSS installation | 19 | 0% | | 10-Aug-19 | 31-Aug-19 | | | |
| Key Date 6 - F&M Works fr | or Administration Building, Maintenance Depot, North Vent Building, Kiosk N2 | - | | - | 5 | | | | |
| E&M Works for Administr | | | | | | | | | |
| Installation | | | | | | | | | |
| G/F | | | | | | | | | |
| ADB-EMGE1000 | ABWF Works ready for E&M Mobilization to General Areas - G/F | 0 | 100% | 0 | 09-Jul-19 A | | • | | |
| | E&M Installation - 1st fix - G/F | 46 | 5% | | 09-Jul-19 A | 12-Sep-19 | | | |
| | D E&M Installation - 2nd fix - G/F | 40 | 0% | | 02-Sep-19 | 21-Oct-19 | | | |
| |) E&M Installation - Final fix - G/F | 40 | 0% | | 27-Sep-19 | 14-Nov-19 | | | |
| | ABWF Works ready for E&M Mobilization to 11kV Swtich & Tx Room 1 - G/F | 0 | 100% | | 18-Jul-19 A | | | • | |
| | E&M Installation - 11kV Switch & Tx Room 1 - G/F | 46 | 5% | | 18-Jul-19 A | 09-Sep-19 | | | |
| | ABWF Works ready for E&M Mobilization to 11kV Swtich & Tx Room 2 - G/F | 40 | 100% | | 15-Jul-19 A | 55 Ocp-13 | | , | |
| | E&M Installation - 11kV Swtich & Tx Room 2 - G/F | 46 | 5% | | 15-Jul-19 A | 09-Son 10 | | | |
| | Cabling from NVB | 40 | 5 % 0% | | 12-Sep-19 | 27-Sep-19 | | | |
| | ABWF Works ready for E&M Mobilization to LV Switch Room - G/F | | | | 20-Jul-19 | 27-3ep-19 | | | |
| | E&M Installation - LV Switch Room - G/F | 0 | 0% | | | 10 Oct 10 | | Ī | |
| | | 34 | 0% | | 31-Aug-19 | 12-Oct-19 | | | |
| | Cable laying - LV Switch Room - from G/F | 24 | 0% | | 14-Oct-19 | 09-Nov-19 | | | |
| | ABWF Works ready for E&M Mobilization to Generator Room & Fuel Tank Room - G/F | 0 | 0% | | 20-Jul-19 | 07.0 | | ľ | |
| | E&M Installation - Generator Room & Fuel Tank Room - G/F | 70 | 0% | | 16-Sep-19 | 07-Dec-19 | | | |
| | ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F | 0 | 0% | | 20-Jul-19 | 22.11.72 | | | |
| | E&M Installation - MVAC Plant Rooms - G/F | 76 | 0% | | 24-Aug-19 | 23-Nov-19 | | | |
| | ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F | 0 | 0% | | 20-Jul-19 | | | T | |
| | E&M Installation - FS Plant Rooms - G/F | 60 | 0% | | 02-Aug-19 | 14-Oct-19 | | | _ |
| | ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F | 0 | 0% | | 20-Jul-19 | | | Ē | |
| | ABWF Works ready for E&M Mobilization to ELV Plant Rooms - G/F | 0 | 0% | - | 20-Jul-19 | | | • | |
| | E&M Installation - ELV Plant Rooms - G/F | 50 | 0% | 50 | 23-Sep-19 | 21-Nov-19 | | | |
| 1/F | | | | | 1 | | | | |
| | ABWF Works ready for E&M Mobilization to General Areas - 1/F | 0 | 0% | | 17-Aug-19 | | | | |
| | E&M Installation - 1st fix - 1/F | 40 | 0% | | 17-Aug-19 | 04-Oct-19 | | | |
| | E&M Installation - 2nd fix - 1/F | 40 | 0% | | 11-Sep-19 | 30-Oct-19 | | | |
| | E&M Installation - Final fix - 1/F | 40 | 0% | | 09-Oct-19 | 23-Nov-19 | | | |
| | ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - 1/F | 0 | 0% | | 07-Aug-19 | | | | |
| | E&M Installation - MVAC Plant Rooms - 1/F | 64 | 0% | 64 | 03-Sep-19 | 19-Nov-19 | | | |
| ADB-EM1F1070 | ABWF Works ready for E&M Mobilization to Electical Plant Rooms - 1/F | 0 | 0% | | 07-Aug-19 | | | | |
| ADB-EM1F1080 | E&M Installation - Electical Plant Rooms - 1/F | 64 | 0% | 64 | 12-Oct-19 | 28-Dec-19 | | | |
| ADB-EM1F1090 | ABWF Works ready for E&M Mobilization to ELV Plant Rooms - 1/F | 0 | 0% | 0 | 07-Aug-19 | | | | |
| ADB-EM1F1100 | E&M Installation - ELV Plant Rooms - 1/F | 52 | 0% | 52 | 23-Sep-19 | 23-Nov-19 | | | |
| Roof | | | | | | | | | |
| ADB-EMRF1000 | ABWF Works ready for E&M Mobilization to General Areas - Roof | 0 | 0% | 0 | 25-Sep-19 | | | | |
| ADB-EMRF1010 | E&M Installation - 1st fix - Roof | 25 | 0% | 25 | 25-Sep-19 | 26-Oct-19 | | | |
| ADB-EMRF1013 | E&M Installation - 2nd fix - Roof | 25 | 0% | 25 | 19-Oct-19 | 16-Nov-19 | | | |
| ADB-EMRF1020 | ABWF Works ready for E&M Mobilization to Cooling Tower Area - Roof | 0 | 0% | 0 | 25-Sep-19 | | | | |
| ADB-EMRF1030 | E&M Installation - Cooling Tower Area - Roof | 90 | 0% | 90 | 25-Sep-19 | 14-Jan-20 | | | |
| Lift Installation (L01) | | | | | | 1 | | | |
| ADB-LF1010 | Access to lift shaft and lift machine room | 0 | 0% | 0 | 25-Sep-19 | | | | |

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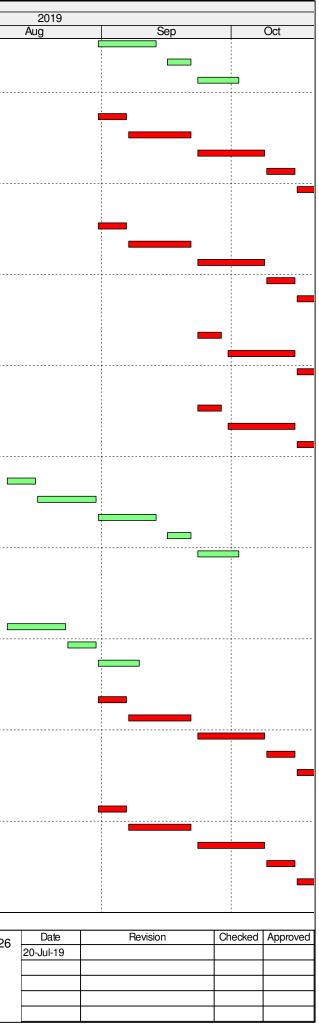


| | Activity | Duration (Days) | % Comp | Remaining S Duration | Sidit | Finish | | |
|------------------------|--|--------------------|--------|-------------------------|-------------|-----------|-----|--|
| ADB-LF1020 | Lift & lift machine room installation | 80 | 0% | 80 | 25-Sep-19 | 02-Jan-20 | Jul | |
| M Works for Maintenan | | 30 | 070 | | | | | |
| Installaltion | | | | | | | | |
| G/F | | | | | | | | |
| | ABWF Works ready for E&M Mobilization to General Areas - G/F | 0 | 100% | 0 | 18-Jul-19 A | | • | |
| MD-EMGF1010 | E&M Installation - 1st fix - G/F | 40 | 5% | | 18-Jul-19 A | 17-Sep-19 | | |
| MD-EMGF1020 | E&M Installation - 2nd fix - G/F | 40 | 0% | | 10-Sep-19 | 29-Oct-19 | | |
| | ABWF Works ready for E&M Mobilization to LV Switch Room - G/F | 0 | 0% | | 08-Aug-19 | | | |
| | E&M Installation - LV Switch Room - G/F | 90 | 0% | | 31-Aug-19 | 17-Dec-19 | | |
| MD-EMGF1080 | ABWF Works ready for E&M Mobilization to Generator & Fuel Tank Rooms - G/F | 0 | 0% | | 24-Aug-19 | | | |
| MD-EMGF1090 | E&M Installation - Generator & Fuel Tank Rooms - G/F | 75 | 0% | | 16-Sep-19 | 13-Dec-19 | | |
| MD-EMGF1110 | ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - G/F | 0 | 0% | 0 | 24-Aug-19 | | | |
| MD-EMGF1120 | E&M Installation - Electrical Plant Rooms - G/F | 70 | 0% | 70 2 | 23-Sep-19 | 14-Dec-19 | | |
| MD-EMGF1130 | ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F | 0 | 0% | | 24-Aug-19 | | | |
| MD-EMGF1140 | E&M Installation - MVAC Plant Rooms - G/F | 90 | 0% | 90 : | 31-Aug-19 | 17-Dec-19 | | |
| MD-EMGF1150 | ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F | 0 | 0% | 0 | 24-Aug-19 | | | |
| MD-EMGF1160 | E&M Installation - FS Plant Rooms - G/F | 90 | 0% | 90 | 24-Aug-19 | 10-Dec-19 | | |
| MD-EMGF1170 | ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F | 0 | 0% | 0 | 24-Aug-19 | | | |
| MD-EMGF1180 | E&M Installation - PD Plant Rooms - G/F | 85 | 0% | 85 | 24-Aug-19 | 04-Dec-19 | | |
| MD-EMGF1190 | ABWF Works ready for E&M Mobilization to Elv Plant Rooms - G/F | 0 | 0% | 0 | 24-Aug-19 | | | |
| MD-EMGF1200 | E&M Installation - Elv Plant Rooms - G/F | 60 | 0% | 60 | 19-Sep-19 | 29-Nov-19 | | |
| R/F | | | | | | · | | |
| MD-EMRF1000 | ABWF Works ready for E&M Mobilization to R/F | 0 | 0% | 0 | 28-Sep-19 | | | |
| MD-EMRF1010 | E&M Installation - 1st fix - R/F | 30 | 0% | 30 | 28-Sep-19 | 04-Nov-19 | | |
| M Works for North Vent | ilation Building | | | | | | | |
| Installation | | | | | | | | |
| TVF Installation | | | | | | | | |
| SB-NVB-TVF-3 | | | | | | | | |
| | Preparation Works | 6 | 0% | | 20-Jul-19 | 26-Jul-19 | • | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | | 27-Jul-19 | 09-Aug-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | | 10-Aug-19 | 23-Aug-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | | 24-Aug-19 | 30-Aug-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 | 31-Aug-19 | 09-Sep-19 | | |
| SB-NVB-TVF-4 | | | | | | | | |
| | Preparation Works | 6 | 0% | | 20-Jul-19 | 26-Jul-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | | 27-Jul-19 | 09-Aug-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | | 10-Aug-19 | 23-Aug-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | | 24-Aug-19 | 30-Aug-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 | 31-Aug-19 | 09-Sep-19 | | |
| NB-NVB-TVF-2 | | | | | | | | |
| | Preparation Works | 6 | 0% | | 10-Aug-19 | 16-Aug-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | | 17-Aug-19 | 30-Aug-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | | 31-Aug-19 | 13-Sep-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | | 16-Sep-19 | 21-Sep-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 | 23-Sep-19 | 02-Oct-19 | | |
| NB-NVB-TVF-3 | | | | | | | | |
| | Preparation Works | 6 | 0% | | 10-Aug-19 | 16-Aug-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 | 17-Aug-19 | 30-Aug-19 | | |



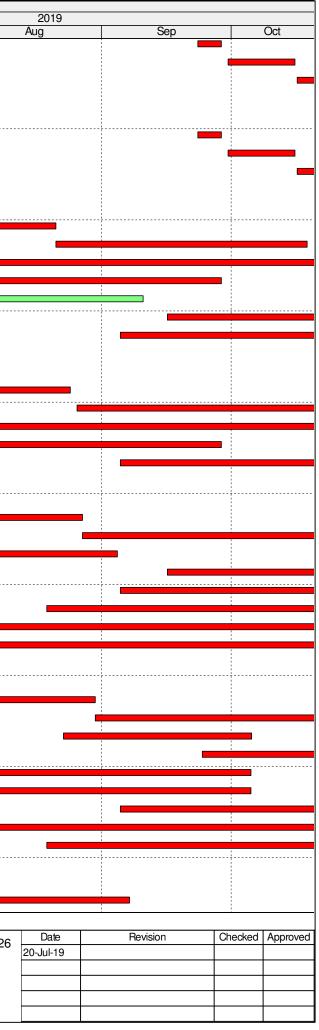
| | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | Jul | |
|--------------|--|--------------------|--------|-----------------------------|-------------|-----|---|
| TVF-NVB1090 | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 31-Aug-19 | 13-Sep-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 16-Sep-19 | 21-Sep-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 23-Sep-19 | 02-Oct-19 | | |
| SB-NVB-TVF-1 | | | | | | | |
| TVF-NVB0200 | Preparation Works | 6 | 0% | 6 31-Aug-19 | 06-Sep-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 07-Sep-19 | 21-Sep-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 23-Sep-19 | 08-Oct-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 09-Oct-19 | 15-Oct-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 16-Oct-19 | 24-Oct-19 | | |
| SB-NVB-TVF-2 | | 0 | 070 | 0 10 000 10 | 21 001 10 | | |
| TVE-NVB0210 | Preparation Works | 6 | 0% | 6 31-Aug-19 | 06-Sep-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 07-Sep-19 | 21-Sep-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 07-Sep-19 | 08-Oct-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 09-Oct-19 | 15-Oct-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 16-Oct-19 | 24-Oct-19 | | |
| NB-NVB-TVF-1 | Leanaye rest IVI I VI | 8 | U70 | 0 10-Oct-19 | 24-061-19 | | |
| | Pronovation Works | C | 00/ | C 02 Can 10 | 00 Can 10 | | |
| | Preparation Works | 6 | 0% | 6 23-Sep-19 | 28-Sep-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 30-Sep-19 | 15-Oct-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 16-Oct-19 | 29-Oct-19 | | |
| NB-NVB-TVF-4 | | | | | | | |
| | Preparation Works | 6 | 0% | 6 23-Sep-19 | 28-Sep-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 30-Sep-19 | 15-Oct-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 16-Oct-19 | 29-Oct-19 | | |
| NB-NVB-TVF-5 | | | | | | | _ |
| | Preparation Works | 6 | 0% | 6 10-Aug-19 | 16-Aug-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 17-Aug-19 | 30-Aug-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 31-Aug-19 | 13-Sep-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 16-Sep-19 | 21-Sep-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 23-Sep-19 | 02-Oct-19 | | |
| NB-NVB-TVF-6 | | | | | | | |
| TVF-NVB0150 | Preparation Works | 6 | 100% | 0 20-Jun-19 A | 05-Jul-19 A | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 100% | 0 06-Jul-19 A | 20-Jul-19 A | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 10-Aug-19 | 23-Aug-19 | | |
| TVF-NVB1220 | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 24-Aug-19 | 30-Aug-19 | | |
| TVF-NVB1230 | Leakage test for TVF | 8 | 0% | 8 31-Aug-19 | 09-Sep-19 | | |
| NB-NVB-TVF-7 | | | | | | | |
| TVF-NVB0160 | Preparation Works | 6 | 0% | 6 31-Aug-19 | 06-Sep-19 | | |
| TVF-NVB1240 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 07-Sep-19 | 21-Sep-19 | | |
| TVF-NVB1250 | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 23-Sep-19 | 08-Oct-19 | | |
| TVF-NVB1260 | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 09-Oct-19 | 15-Oct-19 | | |
| TVF-NVB1270 | Leakage test for TVF | 8 | 0% | 8 16-Oct-19 | 24-Oct-19 | | |
| NB-NVB-TVF-8 | | | | | | | |
| TVF-NVB0170 | Preparation Works | 6 | 0% | 6 31-Aug-19 | 06-Sep-19 | | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 07-Sep-19 | 21-Sep-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 23-Sep-19 | 08-Oct-19 | | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 09-Oct-19 | 15-Oct-19 | | |
| | Leakage test for TVF | 8 | 0% | 8 16-Oct-19 | 24-Oct-19 | | |
| | | U | 0,0 | 0.00010 | | | 1 |

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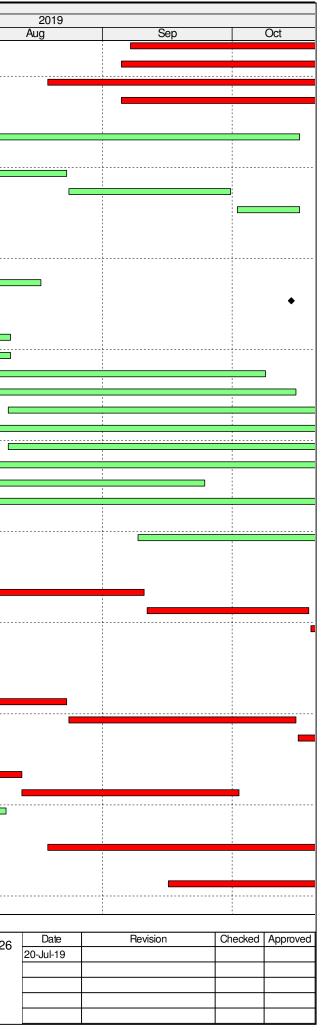
| | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | Jul |
|---------------|--|--------------------|------------|-----------------------------|------------------------|-----|
| TVF-NVB0180 | Preparation Works | 6 | 0% | 6 23-Sep-19 | 28-Sep-19 | |
| TVF-NVB1320 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 0% | 12 30-Sep-19 | 15-Oct-19 | |
| TVF-NVB1330 | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 16-Oct-19 | 29-Oct-19 | |
| NB-NVB-TVF-10 | | | | | | |
| TVF-NVB0190 | Preparation Works | 6 | 100% | 0 06-Jul-19 A | 13-Jul-19 A | |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 12 | 50% | 6 14-Jul-19 A | 28-Sep-19 | |
| | Damper/Silencer and duct installation - Lower Attenuator Room (B1/F) | 12 | 0% | 12 30-Sep-19 | · · | |
| | Ventilation fan and duct installation - Fan Room (G/F) | 6 | 0% | 6 16-Oct-19 | 22-Oct-19 | |
| B2/F | | | | | | |
| NVB-EMB21010 | E&M Installation - 1st fix - B2/F | 50 | 85% | 8 21-Nov-18 | A 29-Jul-19 | |
| | E&M Installation - 2nd fix - B2/F | 50 | 60% | 20 28-Nov-18 | | |
| | E&M Installation - Final fix - B2/F | 50 | 6% | 47 24-Jan-19 | | |
| NVB-EMB21060 | E&M Installation - Electrical Plant Rooms - B2/F | 90 | 0% | 90 20-Jul-19 | 05-Nov-19 | |
| | E&M Installation - MVAC Plant Rooms - B2/F | 60 | 0% | 60 20-Jul-19 | 28-Sep-19 | |
| | E&M Installation - FS Plant Rooms - B2/F | 45 | 0% | 45 20-Jul-19 | 10-Sep-19 | |
| | E&M Installation - PD Plant Rooms - B2/F | 60 | 0% | 60 16-Sep-19 | 26-Nov-19 | |
| | E&M Installation - Elv Plant Rooms - B2/F | 45 | 0% | 45 05-Sep-19 | 31-Oct-19 | |
| 31/F | | | 0,0 | | | |
| NVB-FMB11010 | E&M Installation - 1st fix - B1/F | 50 | 78% | 11 19-Nov-18 | A 01-Aug-19 | |
| | E&M Installation - 2nd fix - B1/F | 50 | 60% | 20 26-Nov-18 | • | |
| | E&M Installation - Final fix - B1/F | 50 | 6% | 47 24-Jan-19 | | |
| | E&M Installation - Electrical Plant Rooms - B1/F | 90 | 0% | 90 20-Jul-19 | 05-Nov-19 | |
| | E&M Installation - MVAC Plant Rooms - B1/F | 60 | 0% | 60 20-Jul-19 | 28-Sep-19 | |
| | E&M Installation - Elv Plant Rooms - B1/F | 45 | 0% | 45 05-Sep-19 | 31-Oct-19 | |
| G/F | | | 070 | 40 00 000 10 | 01 001 10 | |
| | E&M Installation - 1st fix - G/F | 50 | 83% | 9 01-Aug-18 | A 30-Jul-19 | |
| | E&M Installation - 2nd fix - G/F | 50 | 57% | 22 08-Aug-18 | | |
| | E&M Installation - Final fix - G/F | 50 | 6% | 47 24-Jan-19 | • | |
| | Installation by CLP - CLPP HV Switch Room - G/F | 82 | 51.22% | 40 14-Feb-19 | | |
| | E&M Installation - Genset Room & Fuel Tank Room - G/F | 80 | 0% | 80 16-Sep-19 | · · · | |
| | E&M Installation - Electrical Plant Rooms - G/F | 50 | 0% | 50 05-Sep-19 | | |
| | E&M Installation - MVAC Plant Rooms - G/F | 52 | 0% | 52 19-Aug-19 | 21-Oct-19 | |
| | E&M Installation - FS Plant Rooms - G/F | 90 | 0% | 90 20-Jul-19 | 05-Nov-19 | |
| | E&M Installation - PD Plant Rooms - G/F | 90 | 0% | 90 30-Jul-19 | 14-Nov-19 | |
| | | 00 | 070 | | | |
| | E&M Installation - 1st fix - 1/F | 50 | 74% | 13 03-Sep-18 | A 03-Aug-19 | |
| | E&M Installation - 2nd fix - 1/F | 50 | 55% | 23 10-Sep-18 | | |
| | E&M Installation - Final fix - 1/F | 50 | 55 % 6% | 47 31-Jan-19 | | |
| | E&M Installation - LV Switch Room - 1/F | 40 | 10% | 36 10-Jul-19 A | | |
| | Cable laying - LV Switch Room - 1/F | 58 | 0% | 58 24-Sep-19 | | |
| | E&M Installation - 11kV Switch & Tx Room 1 - 1/F | 60 | 10% | 54 10-Jul-19 A | | |
| | E&M Installation - 11kV Switch & Tx Room 2 - 1/F | 60 | 10% | 54 10-Jul-19 A | | |
| | E&M Installation - Electrical Plant Rooms - 1/F | 50 | 0% | 50 05-Sep-19 | 05-Oct-19 06-Nov-19 | |
| | E&M Installation - Electrical Plant Rooms - 1/F | 90 | 0% | 90 20-Jul-19 | 05-Nov-19 | |
| | | | | | | |
| NVB-EM1F1260 | E&M Installation - FS Plant Rooms - 1/F | 90 | 0% | 90 19-Aug-19 | 04-Dec-19 | |
| | FRM Installation 1 at five 0/F | F0 | 700/ | | | |
| | E&M Installation - 1st fix - 2/F | 50 | 70% | 15 08-Oct-18 | • | |
| NVB-EM2F1020 | E&M Installation - 2nd fix - 2/F | 50 | 45% | 28 15-Oct-18 | 4 07-Sep-19 | |

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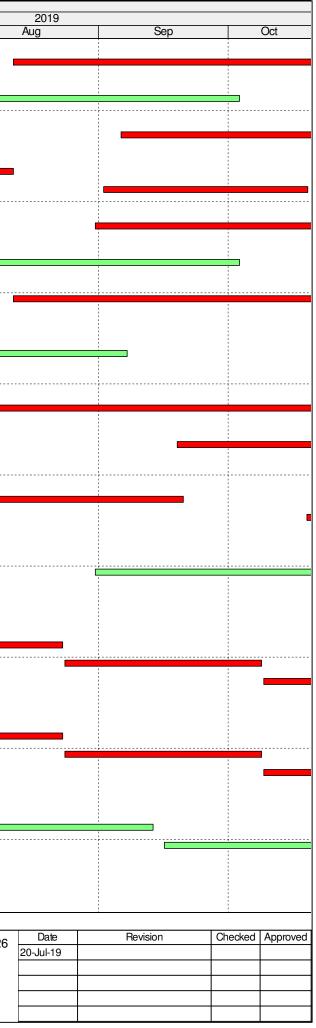
| | Activity | Duration (Days) | % Comp | Remaining Duration | Jan | Finish | Jul |
|--------------------------------|--|--------------------|--------|-----------------------|------------------------|------------|-----|
| NVB-EM2F1030 | E&M Installation - Final fix - 2/F | 50 | 6% | 47 | 07-Feb-19 A | 05-Nov-19 | Jui |
| | E&M Installation - Electrical Plant Rooms - 2/F | 50 | 0% | | 05-Sep-19 | 06-Nov-19 | |
| | E&M Installation - MVAC Plant Rooms - 2/F | 60 | 0% | | • | 30-Oct-19 | |
| | E&M Installation - Elv Plant Rooms - 2/F | 45 | 0% | | 0 | 31-Oct-19 | |
| Lift Installation (L01 & | | I | | | • | | |
| NVB-LF1020 | Lift & lift machine room installation | 73 | 0% | 73 | 20-Jul-19 | 16-Oct-19 | |
| emaining E&M Works for | Kiosk N2 (Structure Completed under KD2) | | | | | | |
| EN2120 | ABWF Works (Door, windows, tiles) | 30 | 0% | 30 | 20-Jul-19 | 23-Aug-19 | |
| EN2130 | E&M Works | 31 | 0% | | | 30-Sep-19 | |
| EN2140 | Testing & Comissioning | 12 | 0% | | | 16-Oct-19 | |
| Date 3 - Satellite Contro | I Building & TCSS Provision | | | | | | |
| uilding Structure | | | | | | | |
| SCB160 | Second Floor | 12 | 16.67% | 10 | 03-Jul-19 A | 31-Jul-19 | |
| SCB170 | Upper Roof Slab | 15 | 0% | | | 17-Aug-19 | |
| SCB180 | Handover Portion XVIIb to HY/2012/08 | 0 | 0% | 0 | -9.0 | 14-Oct-19* | |
| BWF Works (for All) | | | 0,0 | J | | | |
| ASCB1000 | Blockwork Walls | 19 | 0% | 19 | 20-Jul-19 | 10-Aug-19 | |
| ASCB1010 | Door and Window Frames | 19 | 0% | | 20-Jul-19 | 10-Aug-19 | |
| ASCB1020 | ABWF Works to Plant Rooms G/F | 60 | 0% | | 27-Jul-19 | 08-Oct-19 | |
| ASCB1020 | ABWF Works to Plant Rooms 1/F | 60 | 0% | | 03-Aug-19 | 15-Oct-19 | |
| ASCB1021 | ABWF Works to Plant Rooms 2/F | 60 | 0% | | | 22-Oct-19 | |
| ASCB1022 | ABWF Works to Office and Corridors G/F | 95 | 0% | | 27-Jul-19 | 18-Nov-19 | |
| ASCB1030 | ABWF Works to Office and Corridors 1/F | 95 | 0% | | 10-Aug-19 | 02-Dec-19 | |
| ASCB1040 | ABWF Works to Toilets 1/F | 103 | 0% | | 27-Jul-19 | 27-Nov-19 | |
| ASCB1040 | Waterproofing and Roofing | 50 | 0% | | | 24-Sep-19 | |
| ASCB1060 | External Cladding and Wall Plastering | 101 | 0% | | 27-Jul-19 27-Jul-19 | 25-Nov-19 | |
| rovision for TCSS Installation | | 101 | 0 /0 | 101 | Li oui-13 | | |
| SCB210 | Cable Containment Installation to enable TCSS installation | 62 | 0% | 60 | 09-Sep-19 | 22-Nov-19 | |
| | | 02 | 0 % | 02 | 09-0 0 0-19 | 22-1107-13 | |
| | TCB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads | | | | | | |
| arpark Canopy ETCB150 | Steelwork for Canopy Structure | 45 | 0% | 15 | 20-Jul-19 | 10-Sep-19 | |
| ETCB160 | E&M 1st fix Installation for Canopy Structure | 30 | 0% | | 11-Sep-19 | 18-Oct-19 | |
| ETCB170 | E&M 2nd fix and final fix Installation for Canopy Structure | 30 | 0% | | 19-Oct-19 | 22-Nov-19 | |
| | Law zhu na anu inda na mstalialion fur Garopy Structure | 30 | U70 | 30 | 19-001-19 | 22-1100-13 | |
| & M Works for TCB | | | | | | | |
| Installation Basement | | | | | | | |
| | EPM Installation 1 at fix Pasament | | E00/ | 00 | 10 Apr 10 A | 22 Aug 10 | |
| TCB-EM1001 | E&M Installation - 1st fix - Basement | 60 | 50% | | 10-Apr-19 A | - | |
| TCB-EM1002 | E&M Installation - 2nd fix - Basement | 60 | 30% | | 04-Jun-19 A | | |
| TCB-EM1003 | E&M Installation - Final fix - Basement | 60 | 0% | 60 | 16-Oct-19 | 24-Dec-19 | |
| | | | 000/ | 00 | | 10.0 | |
| | E&M Installation - 1st fix - G/F | 60 | 66% | | 15-Feb-19 A | | |
| | E&M Installation - 2nd fix - G/F | 60 | 31% | | 15-May-19 A | | |
| | Installation by CLP - CLP Tx Room - G/F | 60 | 70% | | 14-Feb-19 A | 09-Aug-19 | |
| | ABWF Works ready for E&M Mobilization to LV Switch Room - G/F | 0 | 100% | | 15-Jul-19 A | | • |
| | E&M Installation - LV Switch Room - G/F | 70 | 5% | | | 07-Nov-19 | |
| | ABWF Works ready for E&M Mobilization to Generator & Fuel Tank Rooms - G/F | 0 | 0% | | 20-Jul-19 | | • |
| | E&M Installation - Generator & Fuel Tank Rooms - G/F | 90 | 0% | | • | 03-Jan-20 | |
| TCB-EMGF1170 | ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - G/F | 0 | 0% | 0 | 20-Jul-19 | | • |

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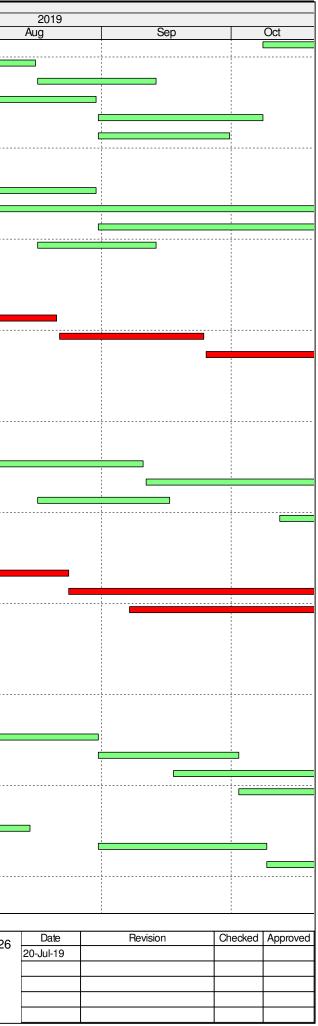
| D | Activity | Duration | % Comp | Remaining | Start | Finish | | | |
|-------------------------|---|----------|--------|-----------|-------------|--------------|---|-----|---|
| | | (Days) | | Duration | | | | Jul | |
| TCB-EMGF1190 | ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EMGF1200 | E&M Installation - MVAC Plant Rooms - G/F | 90 | 0% | 90 | 12-Aug-19 | 27-Nov-19 | | | |
| TCB-EMGF1210 | ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F | 0 | 100% | 0 | 05-Jul-19 A | | • | | |
| TCB-EMGF1220 | E&M Installation - FS Plant Rooms - G/F | 90 | 30% | 63 | 05-Jul-19 A | 03-Oct-19 | | | |
| TCB-EMGF1230 | ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EMGF1240 | E&M Installation - PD Plant Rooms - G/F | 60 | 0% | 60 | 06-Sep-19 | 18-Nov-19 | | | |
| 1/F | | | | | | | | | |
| TCB-EM1F1010 | E&M Installation - 1st fix - 1/F | 60 | 68% | 19 | 26-Mar-19 A | 12-Aug-19 | | | |
| TCB-EM1F1020 | E&M Installation - 2nd fix - 1/F | 60 | 36% | 38 | 20-May-19 A | 19-Oct-19 | | | |
| TCB-EM1F1050 | ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 1/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EM1F1060 | E&M Installation - Electrical Plant Rooms - 1/F | 90 | 0% | 90 | 31-Aug-19 | 17-Dec-19 | | | |
| TCB-EM1F1070 | ABWF Works ready for E&M Mobilization to FS Plant Rooms - 1/F | 0 | 100% | 0 | 05-Jul-19 A | | • | | |
| TCB-EM1F1080 | E&M Installation - FS Plant Rooms - 1/F | 90 | 30% | 63 | 05-Jul-19 A | 03-Oct-19 | | | |
| TCB-EM1F1090 | ABWF Works ready for E&M Mobilization to PD Plant Rooms - 1/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EM1F1100 | E&M Installation - PD Plant Rooms - 1/F | 90 | 0% | 90 | 12-Aug-19 | 27-Nov-19 | | | |
| 2/F | | I | | | | | | | |
| TCB-EM2F1010 | E&M Installation - 1st fix - 2/F | 48 | 69% | 15 | 04-Apr-19 A | 06-Aug-19 | | | |
| TCB-EM2F1020 | E&M Installation - 2nd fix - 2/F | 48 | 42% | 28 | 30-May-19 A | 07-Sep-19 | | | - |
| TCB-EM2F1050 | ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 2/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EM2F1070 | ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - 2/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EM2F1080 | E&M Installation - MVAC Plant Rooms - 2/F | 90 | 0% | 90 | 03-Aug-19 | 19-Nov-19 | | | |
| TCB-EM2F1090 | ABWF Works ready for E&M Mobilization to Elv Plant Rooms - 2/F | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| TCB-EM2F1100 | E&M Installation - Elv Plant Rooms - 2/F | 60 | 0% | 60 | 19-Sep-19 | 29-Nov-19 | | | |
| Roof | | | | | • | | | | |
| TCB-EMRF1000 | ABWF Works ready for E&M Mobilization to Roof | 0 | 0% | 0 | 24-Jul-19 | | | • | |
| TCB-EMRF1010 | E&M Installation - 1st fix - Roof | 50 | 0% | 50 | 24-Jul-19 | 20-Sep-19 | | | |
| TCB-EMRF1020 | E&M Installation - 2nd fix - Roof | 50 | 0% | 50 | 19-Oct-19 | 16-Dec-19 | | | |
| Lift Installation (L01) | | | | | | | | | |
| TCB-LF1000 | Access to lift shaft and lift machine room | 0 | 0% | 0 | 24-Jul-19 | | | • | |
| TCB-LF1010 | Lift & lift machine room installation | 90 | 0% | 90 | 31-Aug-19 | 17-Dec-19 | | | |
| Toll Area | | | | | | | | | |
| South Bound | | | | | | | | | |
| ETA120 | Possess Portions IX, XIX, XXIa, XXIb | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| ETA130 | Installation of South Bound Toll Booths | 30 | 0% | 30 | 20-Jul-19 | 23-Aug-19 | | | |
| ETA140 | South Bound Toll Booths - E&M installation 1st fix | 36 | 0% | 36 | 24-Aug-19 | 08-Oct-19 | | | |
| ETA150 | Toll Booth Subway - E&M installation 1st fix | 48 | 0% | | 09-Oct-19 | 03-Dec-19 | | | |
| North Bound | | | | | | | | | |
| ETA190 | Possess Portion XI | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| ETA200 | Installation of North Bound Toll Booths | 30 | 0% | | 20-Jul-19 | 23-Aug-19 | | | |
| ETA210 | North Bound Toll Booths - E&M installation 1st fix | 36 | 0% | | 24-Aug-19 | 08-Oct-19 | | | |
| ETA220 | Toll Booth Subway - E&M installation 1st fix | 48 | 0% | | 09-Oct-19 | 03-Dec-19 | | | |
| Kiosk N1 | | | 0,0 | .5 | | | | | |
| EN120 | Possess Portion IX | 0 | 0% | 0 | 20-Jul-19 | | | • | |
| EN130 | Structure | 48 | 0% | | 20-Jul-19 | 13-Sep-19 | | | 1 |
| EN140 | ABWF Works (Door, windows, tiles) | 30 | 0% | | 16-Sep-19 | 22-Oct-19 | | | |
| Underpass | | | 0 / 0 | 00 | | - 50, 10 | | | |
| E&M Works at Underpas | | | | | | | | | |
| EU110 | Satge 1 E&M Works Completed for TCSS (under KD4) | 0 | 100% | 0 | | 20-Jun-19 A | r | | |
| | | | 10070 | 0 | | _0 00.1 1071 | | | |

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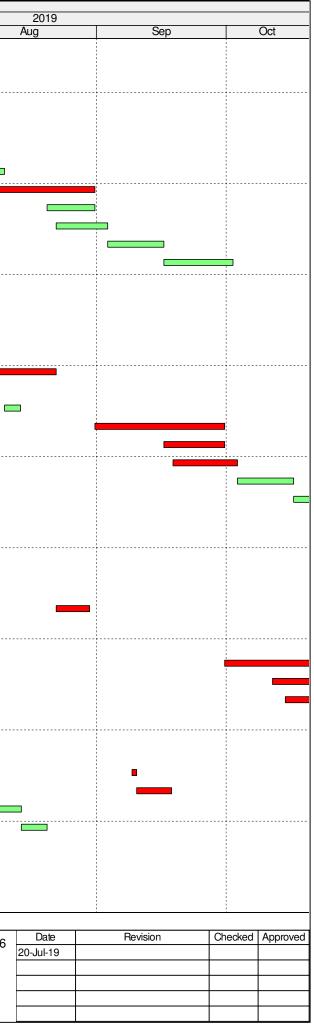
| | Activity | Duration (Days) | % Comp | Remaining Star Duration | rt | Finish | Jul | |
|--------------------------|---|--------------------|--------|----------------------------|----------|-----------|---------|--|
| EU120 | Remaining E&M Installations | 37 | 20% | 30 20-J | Jun-19 A | 11-Nov-19 | | |
| VU110 | Jet Fans installation | 24 | 0% | 24 20-J | Jul-19 | 16-Aug-19 | | |
| VU140 | Dampers installation | 24 | 0% | 24 17-4 | Aug-19 | 13-Sep-19 | | |
| VU150 | Cabling Works | 36 | 0% | 36 20-J | - | 30-Aug-19 | | |
| VU170 | High Level works - Tunnel Lighting | 39 | 25% | | | 08-Oct-19 | | |
| VU180 | Cladding Works | 25 | 0% | 25 31-4 | | 30-Sep-19 | | |
| Plant Room | | | | | 0 | | | |
| E&M Works | | | | | | | | |
| EPR120 | Blockwork Wall & ABWF Works | 90 | 60% | 36 02-1 | Nov-18 A | 30-Aug-19 | | |
| EPR130 | E&M Installation | 90 | 15% | | | 25-Oct-19 | | |
| EPR140 | External Works | 82 | 0% | 82 31-4 | | 07-Dec-19 | | |
| VU160 | Pressurization Fans Installation | 24 | 0% | 24 17-4 | - | 13-Sep-19 | | |
| Deck Void | | | | | 5 | | | |
| Bridge H1, G1, G2 | | | | | | | | |
| DV110 | Possess Portions IX | 0 | 0% | 0 20-J | Jul-19 | | • | |
| DV120 | Electrical Installation - Bridge H1 | 28 | 0% | 28 20-J | | 21-Aug-19 | | |
| DV130 | Electrical Installation - Bridge G1 | 28 | 0% | 28 22-4 | | 24-Sep-19 | | |
| DV140 | Electrical Installation - Bridge G2 | 28 | 0% | 28 25-5 | • | 29-Oct-19 | | |
| TD1, TD2, RB_W | | | | | | | | |
| DV180 | Possess Portions X, IX and XI | 0 | 0% | 0 20-J | Jul-19 | | • | |
| Approach Roads | | | | | | | | |
| Under Portions IX, XI, X | K | | | | | | | |
| AR120 | Possess Portions IX and XI | 0 | 0% | 0 20-J | Jul-19 | | • | |
| AR130 | Cabling works - Portion IX | 45 | 0% | 45 20-J | | 10-Sep-19 | | |
| AR133 | Cabling works - Portion XI | 45 | 0% | 45 11-5 | | 05-Nov-19 | | |
| AR140 | Road lighting installation & termination - Portion IX | 25 | 0% | 25 17-4 | • | 16-Sep-19 | | |
| AR145 | Road lighting installation & termination - Portion XI | 25 | 0% | 25 12-0 | - | 09-Nov-19 | | |
| Under Portion X | | | | | 001.10 | | | |
| AR170 | Possess Portions X | 0 | 0% | 0 20-J | lul-19 | | • | |
| AR176 | Underground Cable Duct Installation (by others) | 61 | 50% | | | 24-Aug-19 | | |
| AR180 | Cabling works in portion X | 90 | 0% | 90 24- | • | 11-Dec-19 | | |
| AR190 | Road lighting installation & termination in portion X | 90 | 0% | 90 07-5 | | 27-Dec-19 | | |
| | for South Vent Duct, Tunnel, and Approach Roads | | 070 | 00 07 0 | | 27 200 10 | | |
| E&M Works | | | | | | | | |
| SVD120 | Access to Portions III | 0 | 0% | 0 20-J | lul-19 | | • | |
| Service Gallery | | | 0,0 | 0 200 | | | | |
| Ch 7200 - 5000 | | | | | | 1- | | |
| TNL-SG1000 | Drilling works CH7200 - 5000 | 12 | 14% | 10 16-4 | Apr-19 A | 01-Aug-19 | | |
| TNL-SG1010 | Wall Mounted Pipe Module Installation CH7200 - 5000 | 30 | 14% | | • | 31-Aug-19 | | |
| TNL-SG1020 | Ceiling Mounted Module Delivery CH7200 - 5000 | 30 | 14% | | - | 02-Oct-19 | | |
| TNL-SG1030 | High Level 2nd Fix and Final Fix Installation CH7200 - 5000 | 46 | 0% | 46 17-5 | - | 12-Nov-19 | | |
| TNL-SG1040 | Cabling Works CH7200 - 5000 | 29 | 0% | 29 02-0 | • | 06-Nov-19 | | |
| CH5000 - 3050 | | 20 | 070 | 20 02 0 | | | | |
| TNL-SG1060 | Drilling works CH5000 - 3050 | 12 | 0% | 12 01-4 | Aug-19 | 15-Aug-19 | | |
| TNL-SG1070 | Wall Mounted Pipe Module Installation CH5000 - 3050 | 30 | 0% | 30 31-4 | | 09-Oct-19 | | |
| TNL-SG1080 | Ceiling Mounted Module Delivery CH5000 - 3050 | 30 | 0% | 30 09-0 | | 13-Nov-19 | | |
| Road Level & OHVD | | | 070 | 00 09-0 | | | | |
| | | | | | | | | |

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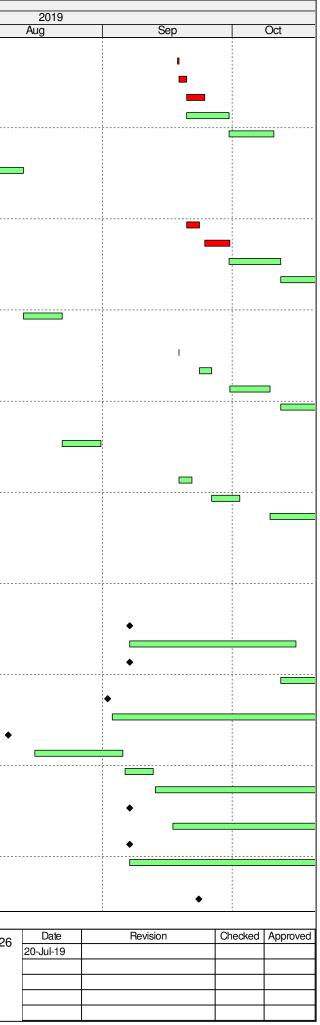
| | | Activity | Duration | % Comp | Remaining | Start | Finish | | | |
|---|----------------|--|----------|-----------------|-----------|-------------|-----------|------|----|---|
| | | | (Days) | / • • • • • • • | Duration | | | Ju | ıl | |
| | Ch 7200 - 6700 | | | | | | | JL | | |
| | TNU-RL1770 | Bracket fixing on side wall - CH7200 to 6700 | 8 | 83.01% | 1 | 15-Apr-19 A | 22-Jul-19 | | | |
| | TNU-RL1775 | Installation Works by Others (to be coordinated) | 47 | 0% | 47 | 22-Jul-19 | 16-Sep-19 | | | |
| | TNU-RL1790 | Lighting in the middle of tunnels - CH7200 to 6700 | 8 | 0% | 8 | 20-Jul-19 | 29-Jul-19 | | | |
| | TNU-RL1800 | FH/ HR pipe installation - CH7200 to 6700 | 8 | 76% | 2 | 02-Apr-19 A | 31-Jul-19 | | | |
| | TNU-RL1830 | Cabling Works on Brackets - CH7200 to 6700 | 14 | 51.01% | 7 | 16-Apr-19 A | 08-Aug-19 | | | - |
| | TNU-RL1840 | MSFD delivery in OHVD - CH7200 to 6700 | 9 | 50% | 5 | 10-Jun-19 A | 06-Aug-19 | | | |
| | TNU-RL1870 | MSFD installation works in OHVD - CH7200 to 6700 | 9 | 50% | | 10-Jun-19 A | • | | | |
| | TNU-RL1880 | High level wiring works and remaining High level works in the middle of tunnels - CH7200 to 6700 | 20 | 0% | | 08-Aug-19 | 31-Aug-19 | | | |
| | TNU-RL1910 | Low level works - FS nicle module - CH7200 to 6700 | 10 | 0% | 10 | 20-Aug-19 | 31-Aug-19 | | | |
| | TNU-RL1930 | Low level works - FS nicle connection - CH7200 to 6700 | 10 | 0% | | 22-Aug-19 | 03-Sep-19 | | | |
| | TNU-RL1940 | Final connection to small powers - CH7200 to 6700 | 10 | 0% | | 03-Sep-19 | 16-Sep-19 | | | |
| | TNU-RL1970 | Cladding works - CH7200 to 6700 | 13 | 0% | | 16-Sep-19 | 02-Oct-19 | | | |
| | Ch 6700 - 6100 | | | | | • | | | | |
| | TNU-RL1000 | Bracket fixing on side wall - CH6700 to 6100 | 10 | 83% | 2 | 15-Apr-19 A | 24-Jul-19 | | | |
| | TNU-RL1005 | Installation Works by Others (to be coordinated) | 70 | 0% | | 24-Jul-19 | 16-Oct-19 | | | |
| | TNU-RL1010 | Lighting in the middle of tunnels - CH6700 to 6100 | 9 | 77% | | 11-Jun-19 A | | | | |
| | TNU-RL1020 | FH/ HR pipe installation - CH6700 to 6100 | 10 | 87% | | 16-Apr-19 A | <u> </u> | | | |
| | TNU-RL1030 | Cabling Works on Brackets - CH6700 to 6100 | 17 | 29% | | 16-Apr-19 A | | | | |
| | TNU-RL1040 | MSFD delivery in OHVD - CH6700 to 6100 | 11 | 78% | | 18-May-19 A | | | | |
| | TNU-RL1050 | MSFD installation works in OHVD - CH6700 to 6100 | 11 | 78% | | 18-May-19 A | | | | |
| | TNU-RL1060 | High level wiring works and remaining High level works in the middle of tunnels - CH6700 to 6100 | 24 | 0% | | 31-Aug-19 | 30-Sep-19 | | | |
| | TNU-RL1070 | Low level works - FS nicle module - CH6700 to 6100 | 12 | 0% | | 16-Sep-19 | 30-Sep-19 | | | |
| | TNU-RL1080 | Low level works - FS nicle connection - CH6700 to 6100 | 12 | 0% | | 18-Sep-19 | 03-Oct-19 | | | |
| | TNU-RL1090 | Final connection to small powers - CH6700 to 6100 | 10 | 0% | | 03-Oct-19 | 16-Oct-19 | | | |
| | TNU-RL1100 | Cladding works - CH6700 to 6100 | 15 | 0% | | 16-Oct-19 | 02-Nov-19 | | | |
| | Ch 6100 - 5600 | | | | | | | | | |
| | TNU-RL1110 | Bracket fixing on side wall - CH6100 to 5600 | 8 | 83.01% | 1 | 15-Apr-19 A | 25-Jul-19 | | | |
| | TNU-RL1115 | Installation Works by Others (to be coordinated) | 86 | 0% | | 25-Jul-19 | 06-Nov-19 | | | |
| | TNU-RL1120 | Lighting in the middle of tunnels - CH6100 to 5600 | 8 | 96% | | 11-Jun-19 A | | | | 1 |
| | TNU-RL1130 | FH/ HR pipe installation - CH6100 to 5600 | 8 | 90% | | 09-Apr-19 A | <u> </u> | | | |
| | TNU-RL1140 | Cabling Works on Brackets - CH6100 to 5600 | 14 | 53.99% | | 23-Apr-19 A | <u> </u> | | | |
| | TNU-RL1150 | MSFD delivery in OHVD - CH6100 to 5600 | 9 | 100% | | 20-Jun-19 A | | | | |
| | TNU-RL1160 | MSFD installation works in OHVD - CH6100 to 5600 | 9 | 100% | | 20-Jun-19 A | | | | |
| | TNU-RL1170 | High level wiring works and remaining High level works in the middle of tunnels - CH6100 to 5600 | 20 | 10% | | 12-Jul-19 A | 23-Oct-19 | | | |
| | TNU-RL1180 | Low level works - FS nicle module - CH6100 to 5600 | 10 | 0% | | 11-Oct-19 | 23-Oct-19 | | | |
| | TNU-RL1190 | Low level works - FS nicle connection - CH6100 to 5600 | 10 | 0% | | 14-Oct-19 | 25-Oct-19 | | | |
| | CH 5600 - 5000 | | | 0,0 | .0 | | | | | |
| | TNU-RL1220 | Bracket fixing on side wall - CH5600 to 5000 | 10 | 83% | 2 | 15-Apr-19 A | 27-Jul-19 | | | |
| | TNU-RL1225 | Installation Works by Others (to be coordinated) | 106 | 0% | | 27-Jul-19 | 02-Dec-19 | | | |
| | TNU-RL1240 | FH/ HR pipe installation - CH5600 to 5000 | 10 | 88% | | 16-Apr-19 A | | | | |
| | TNU-RL1250 | Cabling Works on Brackets - CH5600 to 5000 | 17 | 65% | | 23-Apr-19 A | • | | | |
| _ | TNU-RL1260 | MSFD delivery in OHVD - CH5600 to 5000 | 11 | 55.99% | | 13-Jul-19 A | 14-Aug-19 | | | |
| | TNU-RL1270 | MSFD installation works in OHVD - CH5600 to 5000 | 11 | 55.99% | | 13-Jul-19 A | 20-Aug-19 | | | |
| | TNU-RL1280 | High level wiring works and remaining High level works in the middle of tunnels - CH5600 to 5000 | 24 | 10% | | 20-Jun-19 A | - | | | |
| 0 | CH5000 - 3050 | | | 1070 | | | 10110110 | | | |
| | CH5000 - 4500 | | | | | | | | | |
| | TNU-RL1780 | Bracket fixing on side wall - CH5000 to 4500 | 8 | 15% | 7 | 15-Jun-19 A | 03-Aug-19 | | | |
| | | | U | 1370 | 1 | | 50 Aug-19 | | | |

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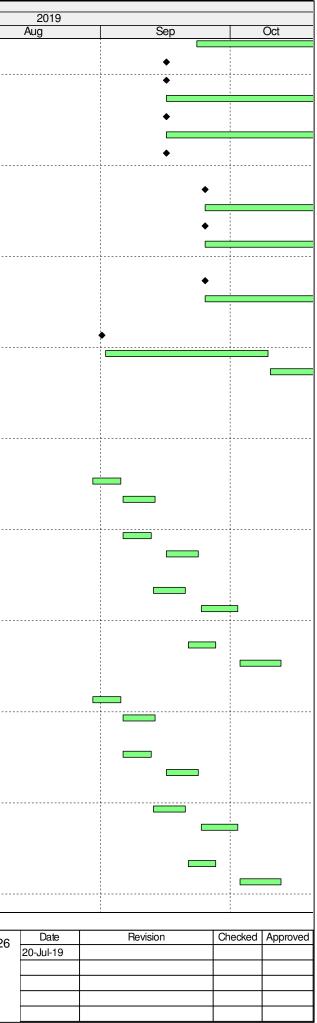
| ID | | Activity | Duration (Days) | % Comp | Remaining Sta Duration | art | Finish | | Jul | | |
|-------|--------------------------|--|--------------------|--------|---------------------------|-----------|-------------|---|-----|----------|----|
| | TNU-RL1785 | Installation Works by Others (to be coordinated) | 119 | 0% | 119 03- | -Aug-19 | 27-Dec-19 | | 001 | | |
| | TNU-RL1810 | Lighting in the middle of tunnels - CH5000 to 4500 | 8 | 90% | 1 20- | -Jun-19 A | 18-Sep-19 | | | | |
| | TNU-RL1820 | FH/ HR pipe installation - CH5000 to 4500 | 8 | 80% | | | 20-Sep-19 | | | | |
| | TNU-RL1850 | Cabling Works on Brackets - CH5000 to 4500 | 14 | 75% | 4 14- | -May-19 A | 24-Sep-19 | | | | |
| | TNU-RL1860 | MSFD delivery in OHVD - CH5000 to 4500 | 9 | 15% | | - | 30-Sep-19 | | | | |
| | TNU-RL1890 | MSFD installation works in OHVD - CH5000 to 4500 | 9 | 15% | | | 10-Oct-19 | | | | |
| | CH4500 - 4000 | | | , | | | | | | | |
| | TNU-RL1330 | Bracket fixing on side wall - CH4500 to 4000 | 8 | 0% | 8 03- | -Aug-19 | 13-Aug-19 | | | | |
| | TNU-RL1335 | Installation Works by Others (to be coordinated) | 131 | 0% | | - | 21-Jan-20 | | | | |
| | TNU-RL1340 | Lighting in the middle of tunnels - CH4500 to 4000 | 8 | 100% | | | 12-Jul-19 A | | | | |
| | TNU-RL1350 | FH/ HR pipe installation - CH4500 to 4000 | 8 | 74% | 2 14 | -May-19 A | 23-Sep-19 | | | | |
| | TNU-RL1360 | Cabling Works on Brackets - CH4500 to 4000 | 14 | 67% | | - | 30-Sep-19 | | | | |
| | TNU-RL1370 | MSFD delivery in OHVD - CH4500 to 4000 | 9 | 0% | | -Sep-19 | 12-Oct-19 | | | | |
| | TNU-RL1380 | MSFD installation works in OHVD - CH4500 to 4000 | 9 | 0% | 9 12- | -Oct-19 | 23-Oct-19 | | | | |
| | CH4000 - 3500 | | | | | | | | | | |
| | TNU-RL1440 | Bracket fixing on side wall - CH4000 to 3500 | 8 | 0% | 8 13- | -Aug-19 | 22-Aug-19 | | | | |
| | TNU-RL1445 | Installation Works by Others (to be coordinated) | 143 | 0% | | - | 17-Feb-20 | | | | |
| | TNU-RL1450 | Lighting in the middle of tunnels - CH4000 to 3500 | 8 | 98.01% | | - | 18-Sep-19 | | | | |
| | TNU-RL1460 | FH/ HR pipe installation - CH4000 to 3500 | 8 | 66.99% | | | 26-Sep-19 | | | | |
| | TNU-RL1470 | Cabling Works on Brackets - CH4000 to 3500 | 14 | 53.99% | | | 09-Oct-19 | | | | |
| | TNU-RL1480 | MSFD delivery in OHVD - CH4000 to 3500 | 9 | 0% | | | 23-Oct-19 | | | | |
| | CH3500 - 3050 | | | | | | | | | | |
| | TNU-RL1550 | Bracket fixing on side wall - CH3500 to 3050 | 8 | 0% | 8 22- | -Aug-19 | 31-Aug-19 | | | | |
| | TNU-RL1555 | Installation Works by Others (to be coordinated) | 155 | 0% | | • | 11-Mar-20 | | | | |
| | TNU-RL1560 | Lighting in the middle of tunnels - CH3500 to 3050 | 8 | 65% | | | 21-Sep-19 | | | | |
| | TNU-RL1570 | FH/ HR pipe installation - CH3500 to 3050 | 8 | 40% | | | 02-Oct-19 | | | | |
| | TNU-RL1580 | Cabling Works on Brackets - CH3500 to 3050 | 14 | 27% | | | 22-Oct-19 | | | | |
| Key D | | Satellite Control Building and Kiosks S1&S2 | | | | | | | | | |
| | M Works for Satellite Co | | | | | | | | | | |
| | E&M Works | | | | | | | | | | |
| | Installation | | | | | | | | | | |
| | G/F | | | | | | | | | | |
| | SCB-EMGF10 | ABWF Works ready for E&M Mobilization to General Areas - G/F | 0 | 0% | 0 07- | -Sep-19 | | | | | |
| | | E&M Installation - 1st fix - G/F | 30 | 0% | | -Sep-19 | 15-Oct-19 | | | | |
| | SCB-EMGF10 | ABWF Works ready for E&M Mobilization to Generator Room & Fuel Tank Room - G/F | 0 | 0% | | -Sep-19 | | | | | |
| | | E&M Installation - Generator Room & Fuel Tank Room - G/F | 70 | 0% | | -Oct-19 | 04-Jan-20 | | | | |
| | | ABWF Works ready for E&M Mobilization to LV Switch Room - G/F | 0 | 0% | | -Sep-19 | | | | | |
| | | E&M Installation - LV Switch Room - G/F | 60 | 0% | | -Sep-19 | 14-Nov-19 | | | | |
| | | ABWF Works ready for E&M Mobilization to CLP Tx Room - G/F | 0 | 0% | | -Aug-19 | | | | | • |
| | | E&M Installation - CLP Tx Room - G/F | 18 | 0% | | -Aug-19 | 05-Sep-19 | | | | |
| | | Inspection & Handover to CLP | 6 | 0% | | -Sep-19 | 12-Sep-19 | | | | |
| | | Installation by CLP - CLP Tx Room - G/F | 68 | 0% | | • | 04-Dec-19 | | | | |
| | | ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F | 0 | 0% | | -Sep-19 | | | | | |
| | | E&M Installation - FS Plant Rooms - G/F | 80 | 0% | | • | 20-Dec-19 | | | | |
| | | ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F | 0 | 0% | | -Sep-19 | | | | | |
| | | E&M Installation - PD Plant Rooms - G/F | 90 | 0% | | • | 24-Dec-19 | | | | |
| | 1/F | | | 0,0 | 00 01 | | | | | | |
| | SCB-EM1F10 | ABWF Works ready for E&M Mobilization to General Areas - 1/F | 0 | 0% | 0 23 | -Sep-19 | | | | | |
| | | | | | | · · · | | 1 | | <u> </u> | _! |

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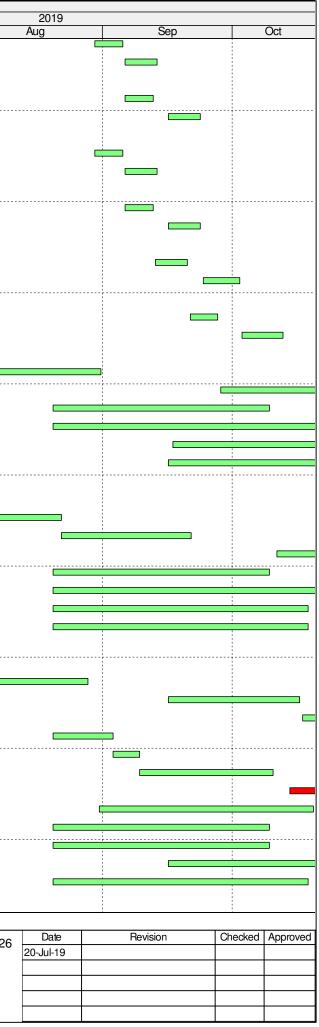
| | Activity | Duration (Days) | % Comp | Remaining Start Duration | Finish | | |
|-----------------------------|---|--------------------|----------|-----------------------------|------------------------|-----|-----|
| | | | | | | Jul | |
| | E&M Installation - 1st fix - 1/F | 30 | 0% | 30 23-Sep-19 | 29-Oct-19 | | |
| | ABWF Works ready for E&M Mobilization to Computer Room (TCSS) - 1/F | 0 | 0% | 0 16-Sep-19 | | | |
| | ABWF Works ready for E&M Mobilization to EL Room - 1/F | 0 | 0% | 0 16-Sep-19 | | | |
| | E&M Installation - EL Room - 1/F | 90 | 0% | 90 16-Sep-19 | 03-Jan-20 | | |
| | ABWF Works ready for E&M Mobilization to FS Plant Rooms - 1/F | 0 | 0% | 0 16-Sep-19 | | | |
| | E&M Installation - FS Plant Rooms - 1/F | 85 | 0% | 85 16-Sep-19 | 27-Dec-19 | | |
| SCB-EM1F111 | ABWF Works ready for E&M Mobilization to Elv Plant Room - 1/F | 0 | 0% | 0 16-Sep-19 | | | |
| Roof | | | | | | | |
| SCB-EMRF10 | ABWF Works ready for E&M Mobilization to R/F | 0 | 0% | 0 25-Sep-19 | | | |
| SCB-EMRF10 | E&M Installation - 1st fix - R/F | 25 | 0% | 25 25-Sep-19 | 25-Oct-19 | | |
| SCB-EMRF10 | ABWF Works ready for E&M Mobilization to FS Plant Rooms | 0 | 0% | 0 25-Sep-19 | | | |
| SCB-EMRF10 | E&M Installation - FS Plant Rooms | 75 | 0% | 75 25-Sep-19 | 23-Dec-19 | | |
| Lift Installation (L01) | | ' ``' | | | | | |
| SCB-LF1010 | Access to lift shaft and lift machine room | 0 | 0% | 0 25-Sep-19 | | | |
| SCB-LF1020 | Lift & lift machine room installation | 75 | 0% | 75 25-Sep-19 | 23-Dec-19 | | |
| iosk S2 | | | | | | | |
| S2110 | Possess Portion VIb | 0 | 0% | 0 | 01-Sep-19 | | |
| S2120 | Structure | 30 | 0% | 30 02-Sep-19 | 09-Oct-19 | | |
| S2130 | ABWF Works (Door, windows, tiles) | 15 | 0% | 15 10-Oct-19 | 26-Oct-19 | | |
| Date 6C - F&M Works f | or South Ventilation Building | _ | | | | | |
| SVB-SEM1000 | SEM Drawings ready for Structural Works for SVB | 0 | 0% | 0 05-Aug-19 | | | |
| stallation | | | | | | | |
| TVF Installation | | | | | | | |
| NB-SVB-TVF-1 | | | | | | | |
| SVB-TVF2000 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 30-Aug-19 | 05-Sep-19 | | |
| SVB-TVF2010 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 06-Sep-19 | 13-Sep-19 | | |
| NB-SVB-TVF-2 | | | 0,0 | | | | |
| SVB-TVF2040 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 06-Sep-19 | 12-Sep-19 | | |
| SVB-TVF2050 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 16-Sep-19 | 23-Sep-19 | | |
| NB-SVB-TVF-3 | | <i>I</i> | 078 | 7 10-0ep-13 | 20-0ep-13 | | |
| SVB-TVF2080 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 13-Sep-19 | 20-Sep-19 | | |
| SVB-TVF2090 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 24-Sep-19 | 02-Oct-19 | | |
| NB-SVB-TVF-4 | Damper/Silencer and duct installation - Lower Attenuator Room(BT/F) | 1 | 0% | 7 24-Sep-19 | 02-001-19 | | |
| | Cileman enlitter and dust installation. Users Attenuates Descript (4/E) | 0 | 00/ | 0 01 0 10 | 07.0++ 10 | | |
| SVB-TVF2120 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 21-Sep-19 | 27-Sep-19 | | |
| SVB-TVF2130 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 8 | 0% | 8 03-Oct-19 | 12-Oct-19 | | |
| SB-SVB-TVF-1 | | | | 1 | | | |
| SVB-TVF2160 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 30-Aug-19 | 05-Sep-19 | | |
| SVB-TVF2170 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 06-Sep-19 | 13-Sep-19 | | |
| SB-SVB-TVF-2 | | | | | | | |
| SVB-TVF2200 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 06-Sep-19 | 12-Sep-19 | | |
| SVB-TVF2210 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 16-Sep-19 | 23-Sep-19 | | |
| SB-SVB-TVF-3 | | | | | | | |
| SVB-TVF2240 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 13-Sep-19 | 20-Sep-19 | | |
| | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 24-Sep-19 | 02-Oct-19 | | |
| SVB-TVF2250 | | | | <u> </u> | | | |
| SVB-TVF2250 SB-SVB-TVF-4 | | | | | | | - I |
| | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 21-Sep-19 | 27-Sep-19 | | |
| SB-SVB-TVF-4 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 6 | 0% 0% | 6 21-Sep-19 8 03-Oct-19 | 27-Sep-19 12-Oct-19 | | |

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| ID | | Activity | Duration | % Comp | Remaining Duration | Start | Finish | | | |
|----|---------------|--|----------|--------|-----------------------|-------------|------------------------|------|---|--|
| | | | (Days) | | | | | Jul | | |
| | SVB-TVF2320 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | | 30-Aug-19 | 05-Sep-19 | | | |
| | SVB-TVF2330 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 | 06-Sep-19 | 13-Sep-19 | | | |
| | SB-SVB-TVF-6 | | | | | | | | | |
| | SVB-TVF2360 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | | 06-Sep-19 | 12-Sep-19 | | | |
| | SVB-TVF2370 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 | 16-Sep-19 | 23-Sep-19 | | | |
| | SB-SVB-TVF-7 | | | | | | | | | |
| | SVB-TVF2400 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 | 30-Aug-19 | 05-Sep-19 | | | |
| | SVB-TVF2410 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 | 06-Sep-19 | 13-Sep-19 | | | |
| | SB-SVB-TVF-8 | | | | | | | | | |
| | SVB-TVF2440 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 | 06-Sep-19 | 12-Sep-19 | | | |
| | SVB-TVF2450 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 | 16-Sep-19 | 23-Sep-19 | | | |
| | SB-SVB-TVF-9 | | | | | | | | | |
| | SVB-TVF2480 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 | 13-Sep-19 | 20-Sep-19 | | | |
| | SVB-TVF2490 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 7 | 0% | 7 | 24-Sep-19 | 02-Oct-19 | | | |
| | SB-SVB-TVF-10 | | | | | | | | | |
| | SVB-TVF2520 | Silencer, splitter and duct installation - Upper Attenuator Room (1/F) | 6 | 0% | 6 | 21-Sep-19 | 27-Sep-19 | | | |
| | SVB-TVF2530 | Damper/Silencer and duct installation - Lower Attenuator Room(B1/F) | 8 | 0% | 8 | 03-Oct-19 | 12-Oct-19 | | | |
| | B2/F | | | | | | | | | |
| | SVB-EMB21010 | E&M Installation - 1st fix - B2/F | 25 | 5% | 24 | 18-Mar-19 A | 31-Aug-19 | | | |
| | SVB-EMB21020 | E&M Installation - 2nd fix - B2/F | 25 | 0% | 25 | 28-Sep-19 | 29-Oct-19 | | | |
| | SVB-EMB21060 | E&M Installation - Electrical Plant Rooms- B2/F | 40 | 0% | 40 | 20-Aug-19 | 09-Oct-19 | | | |
| | SVB-EMB21080 | E&M Installation - MVAC PaInt Rooms - B2/F | 60 | 0% | 60 | 20-Aug-19 | 01-Nov-19 | | | |
| | SVB-EMB21100 | E&M Installation - FS Plant Rooms - B2/F | 45 | 0% | 45 | 17-Sep-19 | 09-Nov-19 | | | |
| | SVB-EMB21110 | E&M Installation - PD PaInt Rooms - B2/F | 60 | 0% | 60 | 16-Sep-19 | 26-Nov-19 | | | |
| | B1/F | | | | | | | | | |
| | SVB-EMB11000 | E&M access to B1/F | 0 | 0% | 0 | 20-Jul-19 | | • | | |
| | SVB-EMB11010 | E&M Installation - 1st fix - B1/F | 25 | 0% | 25 | 24-Jul-19 | 22-Aug-19 | | | |
| | SVB-EMB11020 | E&M Installation - 2nd fix - B1/F | 25 | 0% | 25 | 22-Aug-19 | 21-Sep-19 | | | |
| | SVB-EMB11030 | E&M Installation - Final fix - B1/F | 25 | 0% | 25 | 11-Oct-19 | 08-Nov-19 | | | |
| | SVB-EMB11060 | E&M Installation - Electrical Plant Rooms - B1/F | 40 | 0% | 40 | 20-Aug-19 | 09-Oct-19 | | | |
| | SVB-EMB11080 | E&M Installation - MVAC Plant Rooms - B1/F | 60 | 0% | 60 | 20-Aug-19 | 01-Nov-19 | | | |
| | SVB-EMB11100 | E&M Installation - FS Plant Rooms - B1/F | 48 | 0% | | 20-Aug-19 | 18-Oct-19 | | | |
| | SVB-EMB11120 | E&M Installation - Elv Plant Rooms - B1/F | 48 | 0% | | 20-Aug-19 | 18-Oct-19 | | | |
| | G/F | | | | | | | | | |
| | SVB-EMGF1000 | E&M access to G/F | 0 | 0% | 0 | 31-Jul-19 | | | ۲ | |
| | SVB-EMGF1010 | E&M Installation - 1st fix - G/F | 25 | 0% | | 31-Jul-19 | 28-Aug-19 | | Ļ | |
| | SVB-EMGF1020 | E&M Installation - 2nd fix - G/F | 25 | 0% | | 16-Sep-19 | 16-Oct-19 | | | |
| | SVB-EMGF1030 | E&M Installation - Final fix - G/F | 25 | 0% | | 17-Oct-19 | 14-Nov-19 | | | |
| | SVB-EMGF1050 | E&M Installation - CLPP HV Switch Room - G/F | 12 | 0% | | 20-Aug-19 | 03-Sep-19 | | | |
| | SVB-EMGF1060 | Inspection & Handover to CLP | 5 | 0% | | 03-Sep-19 | 09-Sep-19 | | | |
| | SVB-EMGF1070 | Installation by CLP - CLPP HV Switch Room - G/F | 24 | 0% | | 09-Sep-19 | 10-Oct-19 | | | |
| | SVB-EMGF1120 | E&M Installation - Genset Room & Fuel Tank Rooms - G/F | 40 | 0% | | 14-Oct-19 | 28-Nov-19 | | | |
| | SVB-EMGF1140 | E&M Installation - Electrical Plant Rooms - G/F | 40 | 0% | | 31-Aug-19 | 19-Oct-19 | | | |
| | SVB-EMGF1160 | E&M Installation - MVAC Plant Rooms - G/F | 40 | 0% | | 20-Aug-19 | 09-Oct-19 | | | |
| | SVB-EMGF1180 | E&M Installation - FS Plant Rooms - G/F | 40 | 0% | | 20-Aug-19 | 09-Oct-19 | | | |
| | SVB-EMGF1200 | E&M Installation - PD Plant Rooms - G/F | 40 | 0% | | 16-Sep-19 | 03-Oct-19 02-Nov-19 | | | |
| | SVB-EMGF1220 | E&M Installation - Elv Plant Rooms - G/F | 40 | 0% | | 20-Aug-19 | 18-Oct-19 | | | |
| | 1/F | | 40 | 0 /0 | +0 | | | | | |
| | т/г | | | | | | | | 1 | |

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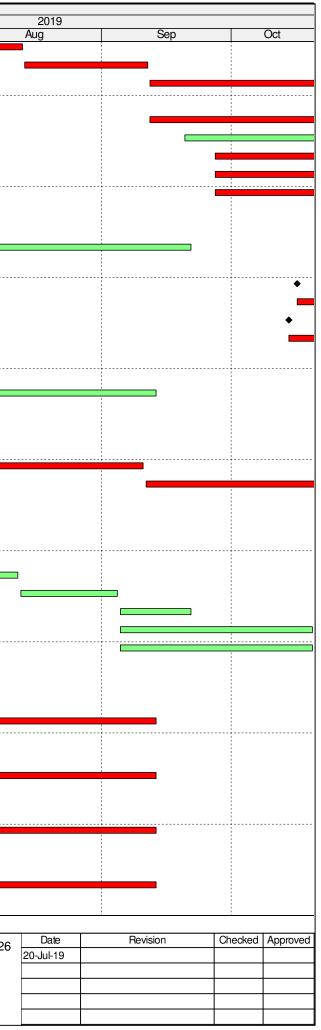
| | Activity | Duration | % Comp | Remaining Start Duration | Finish | |
|---|---|----------|--------|-----------------------------|------------|---------|
| | | (Days) | | Duration | | Jul |
| SVB-EM1F1000 | E&M access to 1/F | 0 | 0% | 0 30-Aug-19 | | |
| SVB-EM1F1010 | E&M Installation - 1st fix - 1/F | 25 | 0% | 25 30-Aug-19 | 28-Sep-19 | |
| SVB-EM1F1020 | E&M Installation - 2nd fix - 1/F | 25 | 0% | 25 30-Sep-19 | 30-Oct-19 | |
| SVB-EM1F1050 | E&M Installation - 11kV Switch & Tx Room 1 - 1/F | 41 | 0% | 41 30-Aug-19 | 19-Oct-19 | |
| SVB-EM1F1110 | E&M Installation - 11kV Switch & Tx Room 2 - 1/F | 41 | 0% | 41 30-Aug-19 | 19-Oct-19 | |
| SVB-EM1F1170 | E&M Installation - LV Switch Room - 1/F | 41 | 0% | 41 05-Sep-19 | 25-Oct-19 | |
| SVB-EM1F1220 | E&M Installation - Electrical Plant Rooms - 1/F | 50 | 0% | 50 30-Aug-19 | 30-Oct-19 | |
| SVB-EM1F1240 | E&M Installation - MVAC Plant Rooms - 1/F | 60 | 0% | 60 30-Aug-19 | 11-Nov-19 | |
| SVB-EM1F1260 | E&M Installation - FS Plant Rooms - 1/F | 50 | 0% | 50 30-Aug-19 | 30-Oct-19 | |
| SVB-EM1F1280 | E&M Installation - ELV Plant Rooms - 1/F | 50 | 0% | 50 30-Aug-19 | 30-Oct-19 | |
| 2/F | | | I | | | |
| SVB-EM2F1000 | E&M access to 2F | 0 | 0% | 0 30-Sep-19 | | |
| SVB-EM2F1010 | E&M Installation - 1st fix - 2/F | 25 | 0% | 25 30-Sep-19 | 30-Oct-19 | |
| SVB-EM2F1060 | E&M Installation - Electrical Plant Rooms - 2/F | 40 | 0% | 40 30-Sep-19 | 16-Nov-19 | |
| SVB-EM2F1080 | E&M Installation - MVAC Plant Rooms - 2/F | 40 | 0% | 40 30-Sep-19 | 16-Nov-19 | |
| SVB-EM2F1100 | E&M Installation - FS Plant Rooms - 2/F | 40 | 0% | 40 30-Sep-19 | 16-Nov-19 | |
| SVB-EM2F1120 | E&M Installation - PD Plant Rooms - 2/F | 40 | 0% | 40 30-Sep-19 | 16-Nov-19 | |
| Lift Installation (L01 & L0 | 2) | | | | | |
| SVB-LF1010 | Access to lift shaft and lift machine room | 0 | 0% | 0 30-Sep-19 | | |
| SVB-LF1020 | Lift & lift machine room installation | 50 | 0% | 50 15-Oct-19 | 11-Dec-19 | |
| Key Date 10 - FSD Building S | | | | | | |
| Building Structure | | | | | | |
| FSD220 | First Floor | 25 | 40% | 15 10-Jul-19 A | 06-Aug-19 | |
| FSD230 | Roof Slab | 25 | 0% | 25 07-Aug-19 | 04-Sep-19 | |
| FSD240 | Top Roof | 18 | 0% | 18 05-Sep-19 | 26-Sep-19 | |
| ABWF Works | | | | | | |
| AFSD1000 | Blockwork Walls | 25 | 0% | 25 21-Aug-19 | 19-Sep-19 | |
| AFSD1010 | Door and Window Frames | 19 | 0% | 19 28-Aug-19 | 19-Sep-19 | |
| AFSD1020 | ABWF Works to Plant Rooms G/F | 56 | 0% | 56 28-Aug-19 | 04-Nov-19 | |
| AFSD1021 | ABWF Works to Plant Rooms 1/F | 56 | 0% | 56 04-Sep-19 | 11-Nov-19 | |
| AFSD1030 | ABWF Works to Office and Corridors G/F | 124 | 0% | 124 28-Aug-19 | 29-Jan-20 | |
| AFSD1031 | ABWF Works to Office and Corridors 1/F | 124 | 0% | 124 04-Sep-19 | 05-Feb-20 | |
| AFSD1040 | ABWF Works to Toilets G/F | 136 | 0% | 136 28-Aug-19 | 12-Feb-20 | |
| AFSD1050 | Waterproofing and Roofing | 52 | 0% | 52 11-Sep-19 | 13-Nov-19 | |
| AFSD1060 | External Cladding and Wall Plastering | 101 | 0% | 101 11-Sep-19 | 13-Jan-20 | |
| E&M Works | | 101 | 070 | | .c Juli EU | |
| Installation | | | | | | |
| | E&M cast-in Installation | 80 | 50% | 40 20-May-19 A | 04-Sep-19 | |
| G/F | | | 00,0 | | ····· | |
| | ABWF Works ready for E&M Mobilization to CLP TX Room - G/F | 0 | 0% | 0 11-Sep-19 | | |
| | E&M Installation - CLP Tx Room - G/F | 18 | 0% | 18 11-Sep-19 | 03-Oct-19 | |
| | Inspection & Handover to CLP | 6 | 0% | 6 04-Oct-19 | 11-Oct-19 | |
| | Installation by CLP - CLP Tx Room - G/F | 82 | 0% | 82 12-Oct-19 | 18-Jan-20 | |
| | - | 02 | 0 /8 | | | |
| Statutory Inspections and | | 0 | 0% | 0 20-Jul-19 | | • |
| Statutory Inspections and ESDB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 11 | | | | r - |
| Statutory Inspections and FSDB-SI1000 FSDB-SI1005 | Submission of Genset Exhaust Drawing to EPD Review and Approval of Genset Exhaust Drawing by EPD | 0 | 0% | 48 20-Jul-19 | 13-Sep-19 | |

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| D | Activity | Duration | % Comp | Remaining Start | Finish | | | |
|-------------------------------|---|----------|--------|-----------------|-----------|--|-----|---|
| | | (Days) | | Duration | | | Jul | |
| CED230 | First Floor | 25 | 16% | 21 17-Jul-19 A | 13-Aug-19 | | | |
| CED240 | Second Floor | 25 | 0% | 25 14-Aug-19 | 11-Sep-19 | | | |
| CED250 | Third Floor | 32 | 0% | 32 12-Sep-19 | 22-Oct-19 | | | |
| ABWF Works | | | | | | | | |
| ACED1000 | Blockwork Walls | 54 | 0% | 54 12-Sep-19 | 16-Nov-19 | | | |
| ACED1010 | Door and Window Frames | 48 | 0% | 48 20-Sep-19 | 16-Nov-19 | | | |
| ACED1020 | ABWF Works to Plant Rooms G/F | 60 | 0% | 60 27-Sep-19 | 07-Dec-19 | | | |
| ACED1030 | ABWF Works to Office and Corridors G/F | 133 | 0% | 133 27-Sep-19 | 09-Mar-20 | | | |
| ACED1040 | ABWF Works to Toilets G/F | 142 | 0% | 142 27-Sep-19 | 19-Mar-20 | | | |
| E&M Works | | | | | | | | |
| Installation | | | | | | | | |
| C&EDB-GF0001 | E&M cast-in Installation | 90 | 40% | 54 18-May-19 A | 21-Sep-19 | | | |
| G/F | | | | | | | | |
| C&EDB-GF1000 | ABWF Works ready for E&M Mobilization to General Areas - G/F | 0 | 0% | 0 16-Oct-19 | | | | |
| C&EDB-GF1010 | E&M Installation - 1st fix - G/F | 40 | 0% | 40 16-Oct-19 | 30-Nov-19 | | | |
| C&EDB-GF1040 | ABWF Works ready for E&M Mobilization to CLP Tx Room - G/F | 0 | 0% | 0 14-Oct-19 | | | | |
| C&EDB-GF1050 | E&M Installation - CLP Tx Room - G/F | 18 | 0% | 18 14-Oct-19 | 02-Nov-19 | | | |
| Statutory Inspections and | approvals | | | | | | | |
| C&EDB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 20-Jul-19 | | | • | |
| C&EDB-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 20-Jul-19 | 13-Sep-19 | | | |
| Key Date 11 - Landscape Sof | t Works & Trees Protection | | | | | | | |
| Trees Protection | | | | | | | | |
| SL196 | Protection Existing Trees & Submit Report with Photographic Record No.7 | 41 | 90.24% | 4 05-Jun-19 A | 24-Jul-19 | | | 1 |
| SL197 | Protection Existing Trees & Submit Report with Photographic Record No.8 | 41 | 0% | 41 25-Jul-19 | 10-Sep-19 | | | |
| SL198 | Protection Existing Trees & Submit Report with Photographic Record No.9 | 41 | 0% | 41 11-Sep-19 | 31-Oct-19 | | | |
| Key Date 8 - All Works for Tu | nnel Comissioning & Opening | | | | | | | |
| Petrol Filling Station | | | | | | | | |
| Structure | | | | | | | | |
| PS110 | Possess Portion Vc | 0 | 0% | 0 | 20-Jul-19 | | • | |
| PS120 | Excavation | 20 | 0% | 20 20-Jul-19 | 12-Aug-19 | | | i |
| PS130 | Footing | 20 | 0% | 20 13-Aug-19 | 04-Sep-19 | | | |
| PS140 | Petrol Filling Station Roof | 14 | 0% | 14 05-Sep-19 | 21-Sep-19 | | | |
| PS150 | Structure for Petrol Filling Station | 36 | 0% | 36 05-Sep-19 | 19-Oct-19 | | | |
| PS160 | Underground Fuel Tank Structure | 36 | 0% | 36 05-Sep-19 | 19-Oct-19 | | | |
| Statutory Inspections and ap | provals | | | | | | | |
| Administration Building | | | | | | | | |
| ADB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 20-Jul-19 | | | • | |
| ADB-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 20-Jul-19 | 13-Sep-19 | | | |
| Maintenance Depot | | | | | | | | |
| MD-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 20-Jul-19 | | | • | |
| MD-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 20-Jul-19 | 13-Sep-19 | | | |
| North Ventilation Building | | | | | | | | |
| NVB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 20-Jul-19 | | | • | |
| NVB-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 20-Jul-19 | 13-Sep-19 | | | |
| Toll Control Building & To | | | | | | | | |
| TCB-SI0010 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 20-Jul-19 | | | • | |
| TCB-SI0015 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 20-Jul-19 | 13-Sep-19 | | | |
| Satellite Control Building | | | | | | | | |
| | | | | | | | | |

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| | Activity | Duration (Days) | | Remaining S Duration | Start | Finish | • | | 2019 | | |
|------------------------|--|--------------------|----|-------------------------|-----------|-----------|---|-----|------|-----|-----|
| | | (| | | | | | Jul | Aug | Sep | Oct |
| SCB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 | 22-Jul-19 | | | • | | | |
| SCB-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 | 22-Jul-19 | 17-Sep-19 | | | | | |
| South Ventilation Buil | lding | | | | | | | | | | |
| SVB-SI1000 | Submission of Genset Exhaust Drawing to EPD | 0 | 0% | 0 | 24-Jul-19 | | | • | | | |
| SVB-SI1005 | Review and Approval of Genset Exhaust Drawing by EPD | 48 | 0% | 48 2 | 24-Jul-19 | 19-Sep-19 | | | | | |

| 26 | Date | Revision | Checked | Approved |
|----|-----------|----------|---------|----------|
| .0 | 20-Jul-19 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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 * |
|---------------|----------------|--|--|-------------------------|---|-----|--------------------|------|----------|
| Air Quality | Reference | | | | | D | С | 0 | |
| 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 | In hot, dry or windy weather, the watering programme shall maintain 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 | | <> |
| 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 | | N/A |
| 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. | | Contractor | TMEIA Avoid dust generation | | Y | | N/A |
| 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 | | N/A |
| 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 | | N/A |
| 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 | | ~ |

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

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Im | plementa Stages | tion | Status * |
|---------------|-----------------------------|---|---|-------------------------|-------------------------------------|----|--------------------|------|--|
| | Reference | | | | | D | С | 0 | 1 |
| 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 | | N/A |
| 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 period | Contractor | EM&A Manual | | Y | | N/A (Results adopted from published EM&A data of Contract No. HY/2012/08) |
| WATER QUAL | ITY (LAND) | WORKS) | | | | | | | |
| 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 | | N/A |
| 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. | | 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 | | |
| 6.10 | - | Temporary access roads should be surfaced with crushed stone or gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | × |
| 6.10 | - | Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | | Contractor | TM-EIAO | | Y | | N/A |
| 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 | | × |
| 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 | | N/A |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imj | plementa Stages | tion | Status * |
|---------------|----------------|---|--|-------------------------|--|-----|--------------------|------|--------------|
| | Reference | | | | 1 1 | D | C | 0 | |
| 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. | | Contractor | TM-EIAO | | Y | | ✓ |
| 5.10 | - | Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | | Contractor | TM-EIAO | | Y | | ~ |
| 5.10 | - | 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 | | ✓ |
| 5.10 | - | 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 | | \checkmark |
| 5.10 | - | Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 5.10 | - | 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 | | N/A |
| .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 |
| 5.10 | - | 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 | | ✓ |
| 5.10 | - | 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 | | ✓ |
| .10 | - | All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank. | construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 5.10 | - | Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | N/A |
| 6.10 | - | Roadside gullies to trap silt and grit shall be provided prior to | Roadside/design and operation | Design | TM-EIAO | Y | | Y | N/A |

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

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imj | plementa Stages | tion | Status * |
|---------------|-----------------------------|---|---|---------------------------|--|-----|--------------------|------|--------------|
| | Reference | | | | | D | C | 0 | |
| | | discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals. | | Consultant/ Contractor | | | | | |
| 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 | | \checkmark |
| WASTE | | | | | | | | | |
| 12.6 | | The Contractor shall identify a coordinator for the management of waste. | Contract mobilisation | Contractor | TMEIA | | Y | | ✓ |
| 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 | | \checkmark |
| 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. | | 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 | | \checkmark |
| 12.6 | 8.1 | No waste shall be burnt on site. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |

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

| EIA Reference | EM&A Manual Reference | e | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | Status * | |
|---------------|-----------------------------|---|---|-------------------------|-------------------------------------|--------------------------|---|----------|--------------|
| | | | | | | D | С | 0 | |
| 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. | 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 | | √ |
| 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. | construction period | Contractor | TMEIA | | Y | | ~ |
| 12.6 | 8.1 | All falsework will be steel instead of wood. | All areas / throughout construction period | Contractor | TMEIA | | Y | | \checkmark |
| 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: | | Contractor | TMEIA | | Y | | 4 |
| | | f suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; f Having a capacity of <450L unless the specifications have been approved by the EPD; and | | | | | | | |

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

| EIA Reference | EM&A Manual Reference | 1 | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Stages | | Status * | |
|---------------|-----------------------------|---|---|-------------------------|-------------------------------------|--------|---|----------|-----|
| | Kererence | w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. f Clearly labelled and used solely for the storage of chemical wastes; f Enclosed with at least 3 sides; f 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; f Adequate ventilation; f Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and f Incompatible materials are adequately | | | | D | С | 0 | |
| 12.6 | 8.1 | separated. 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 | | ✓ |
| 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 | | ~ |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status * |
|---------------|-----------------------------|--|--|----------------------------------|-------------------------------------|--------------------------|---|---|----------|
| | | | | | | D | С | 0 | |
| 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 | | 1 |
| LANDSCAPE A | AND VISUA | Ĺ | | | | | | | |
| 10.9 | 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 | Y | Y | | N/A |
| 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 | Y | Y | | N/A |
| 10.9 | 7.6 | Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3) | All areas/detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | N/A |
| 10.9 | 7.6 | Hydroseeding or sheeting of soil stockpiles with visually unobstrusive 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 | Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5) | 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 | Ensure no run-off into water body adjacent to the Project Area (CM7) | 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 | Y | Y | | ✓ |
| 10.9 | 7.6 | Recycle/ Reuse all felled trees and vegetation, e.g. mulching (CM9) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | N/A |

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

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | l Implementation Stages | | | Status * |
|---------------|----------------|---|---|----------------------------------|-------------------------------------|----------------------------|---|---|--|
| | Reference | | | | | D | С | 0 | |
| 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 | Y | n/a. To be implemented by AFCD/HyD/L CSD |
| 10.9 | 7.6 | Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3) | 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 | Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly 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 | Y | n/a. To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Aesthetically pleasing design (visually unobtrusive and non- reflective) as regard to the form, material and finishes | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | 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

Appendix D

Summary of Action and Limit Levels

| Parameters | Action | Limit |
|----------------------------|-------------|-------|
| 24 Hour TSP Level in μg/m³ | ASR1 = 213 | 260 |
| | ASR5 = 238 | |
| | AQMS1 = 213 | |
| | ASR6 = 238 | |
| | ASR10 = 214 | |
| 1 Hour TSP Level in μg /m³ | 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 E1Event/Action Plan for Air Quality

| | ACTION | | | | | | |
|-----------------------|---|---|---------------------------------------|--------------------------------------|--|--|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | ER ⁽¹⁾ | Contractor | | | |
| Action Level | | | | | | | |
| 1. Exceedance for one | 1. Identify the source. | 1. Check monitoring data submitted | 1. Notify Contractor. | 1. Rectify any unacceptable practice | | | |
| sample | 2. Inform the IEC and the ER. | by the ET. | | 2. Amend working methods if | | | |
| | 3. Repeat measurement to confirm finding. | Check Contractor's working method. | | appropriate | | | |
| | Increase monitoring frequency to daily. | | | | | | |
| 2. Exceedance for two | 1. Identify the source. | submitted by the ET.2. Check the Contractor's working method.3. Discuss with the ET and the Contractor on possible remedial | 1. Confirm receipt of notification of | 1. Submit proposals for remedial | | | |
| or more consecutive | 2. Inform the IEC and the ER. | | failure in writing. | actions to IEC within 3 working | | | |
| samples | 3. Repeat measurements to confirm | | 2. Notify the Contractor. | days of notification | | | |
| | findings. | | 3. Ensure remedial measures properly | 2. Implement the agreed proposals | | | |
| | Increase monitoring frequency to daily. | | implemented. | 3. Amend proposal if appropriate | | | |
| | 5. Discuss with the IEC and the | measures. | | | | | |
| | Contractor on remedial actions required. | Advise the ER on the effectiveness of the proposed remedial measures. Supervise implementation of | | | | | |
| | 6. If exceedance continues, arrange | | | | | | |
| | meeting with the IEC and the ER. | remedial measures. | | | | | |
| | 7. If exceedance stops, cease additional monitoring. | | | | | | |

| | ACTION | | | | | | |
|---|--|--|---|--|--|--|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | ER ⁽¹⁾ | Contractor | | | |
| Limit Level | | | | | | | |
| 1. Exceedance for one | 1. Identify the source. | 1. Check monitoring data submitted | 1. Confirm receipt of notification of | 1. Take immediate action to avoid | | | |
| sample | 2. Inform the ER and the DEP. | by the ET. | failure in writing. | further exceedance | | | |
| | Repeat measurement to confirm finding. | 2. Check Contractor's working method. | 2. Notify the Contractor. 3. Ensure remedial measures are | 2. Submit proposals for remedial actions to IEC within 3 working days of notification | | | |
| | Increase monitoring frequency to daily. | 3. Discuss with the ET and the Contractor on possible remedial | properly implemented. | 3. Implement the agreed proposals | | | |
| | 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of | measures. 4. Advise the ER on the effectiveness of the proposed remedial measures. | | 4. Amend proposal if appropriate | | | |
| | the results. | 5. Supervise implementation of remedial measures. | | | | | |
| 2. Exceedance for two or more consecutive | 1. Notify the IEC, the ER, the DEP and the Contractor. | the Contractor on the potential remedial actions.2. Review the Contractor's remedial actions whenever | Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance. | | | |
| samples | 2. Identify the source. | | remedial actions. 2. Notify the Contractor. | 2. Submit proposals for remedial | | | |
| | 3. Repeat measurements to confirm findings. | | 3. In consultation with the IEC, agree with the Contractor on the | actions to IEC within 3 working days of notification. | | | |
| | 4. Increase monitoring frequency to | necessary to assure their effectiveness and advise the ER | remedial measures to be | 3. Implement the agreed proposals. | | | |
| | daily. accordingly. | effectiveness and advise the EK | implemented. | 4. Resubmit proposals if problem sti | | | |
| | | 3. Supervise the implementation of | Ensure remedial measures are properly implemented. | not under control. | | | |
| | | remedial measures. | If exceedance continues, consider what activity of the work is responsible and instruct the | 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated. | | | |
| | Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken. | | Contractor to stop that activity of work until the exceedance is abated. | | | | |
| | 7. Assess effectiveness of the Contractor's remedial actions | | | | | | |

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, ER - Engineer's Representative, DEP - Director of Environmental Protection

Appendix F

EM&A Monitoring Schedule

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|------------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|
| | 1-Jul | 2-Jul | 3-Jul | 4-Jul | 5-Jul | 6-Jul |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 7 1 | 0. [u] | 0.101 | 10 Iul | 44 1.1 | 40 Jul | 40 Jul |
| 7-Ju | l 8-Jul | 9-Jul | 10-Jul | 11-Jul | 12-Jul | 13-Jul |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 14-Ju | l 15-Jul | 16-Jul | 17-Jul | 18-Jul | 19-Jul | 20-Jul |
| | | | LFG Monitoring (a.m. & |
| | | | | | | p.m.) |
| | | | | | | |
| | | | | | | |
| 21-Ju | | | | | | |
| | LFG Monitoring (a.m. & p.m.) | LFG Monitoring (a.m. & p.m.) | LFG Monitoring (a.m. & | LFG Monitoring (a.m. & | | LFG Monitoring (a.m. & |
| | | | p.m.) | p.m.) | p.m.) | p.m.) |
| | | | | | | |
| 00.1 | | 00.11 | 04.1.1 | | | |
| 28-Ju | | | | | | |
| | LFG Monitoring (a.m. & p.m.) | LFG Monitoring (a.m. & p.m.) | | | | |
| | | | p.m.) | | | |
| | | | | | | |
| | | | | | | |

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

Appendix GG

Calibration Certificate of Monitoring Equipment



The Safety Company MSA Corporate Center • 1000 Cranberry Woods Drive • Cranberry Township, PA 16066 www.msasafety.com

Telephone: (800) MSA-2222

ALTAIR5X CERTIFICATE OF CALIBRATION

Serial Number: 145986

Part Number: A-ALT5X-B-N-K-0-0-B-0-T-0-0-0

1

Factory Calibration Date: 11/26/18

Set Points

| | METHANE 0-100.00 %LEL | O2 0-30.00 %VOL | CO2 0-9.99 %VOL |
|---------------------|-----------------------------|---------------------|--------------------------------|
| ✔ (Low) | 10.00 %LEL | 19.50 %VOL | 0.50 %VOL |
| 🛧 (High) | 20.00 %LEL | 23.00 %VOL | 1.50 %VOL |
| STEL | | | 0.50 %VOL |
| TWA | | | 1.50 %VOL |
| Calibrated Value | Methane 1.457 %VOL | O2 15.00 %VOL | CO2 2.502 %VOL |
| Cylinder Lot # | 122- 401167301-1 | 122- 401167301-1 | 141- 401019452- 1N461052 |

Calibration Certification

All applicable inspections, testing, and calibrations were performed using NIST traceable equipment, where available, in accordance with MSA's ISO 9001 Certified Quality System. Each material, component, and/or instrument must be installed, operated and maintained in strict accordance with its labels, cautions, warnings, instructions, and within the limitations stated in the supplied instruction manual. Routine calibration checks, equipment inspections, and applicable preventative maintenance measures must be performed to verify that the materials, components, and/or instruments are operating properly. Failure to perform these tasks on a routine basis, or suggested intervals, with specified equipment or methods, may result in inaccurate readings.

Conformance Statement

MSA certifies that the materials, components, and/or instruments delivered in this shipment conform to all applicable specifications. The items delivered have been processed through the appropriate approved document controlled procedures for Receiving, Manufacturing and Inspection. The materials, components, and/or instruments were inspected, tested, and calibrated, as applicable, per the associated drawings, standards requirements, and/or specifications, and were deemed acceptable by appropriate authorized personnel.

Process Certified By:

Calibrated By: Ca. Mccandless

HOFFMAN OUALITY ENGINEER

Appendix H

Landfill Gas Monitoring Results and Graphical Presentation

Landfill Gas Monitoring Results on Methane Level

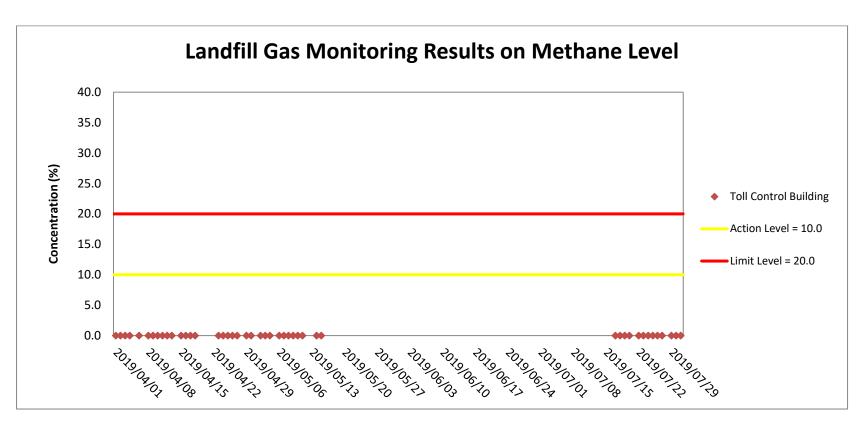
| Project | Works | Date(yyyy-mm-dd) | Monitoring Location | Time (hh:mm, 24hour) | Results (%) | Action Level (%) | Limit Level (%) |
|---------|------------|------------------|------------------------|----------------------|-------------|------------------|-----------------|
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 8:15 | 0 | 10.0 | 20.0 |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 13:15 | 0 | 10.0 | 20.0 |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 13:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 8:15 | 0 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 13:15 | 0 | | |
| | | | | Average | 0 | | |
| | | | | Min. | 0 | | |
| | | | | Max. | 0 | | |
| | | | • | | | - | |

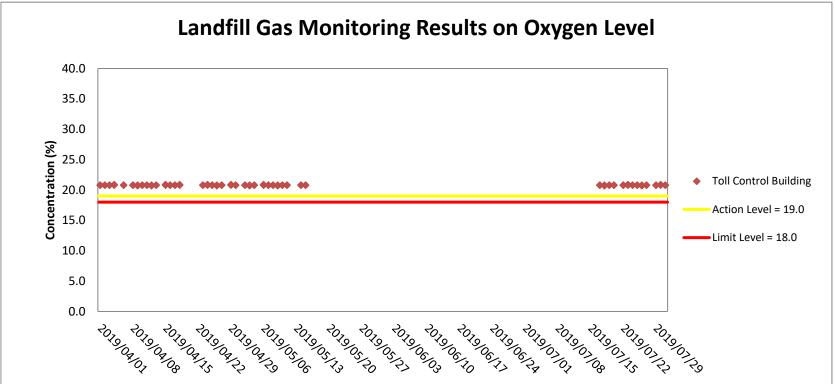
Landfill Gas Monitoring Results on Oxygen Level

| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Results (%) | Action Level (%) | Limit Level (%) |
|---------|------------|------------------|------------------------|----------------------|-------------|------------------|-----------------|
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 8:15 | 20.7 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 8:15 | 20.9 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 8:15 | 20.8 | 19.0 | 18.0 |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 13:15 | 20.8 | 19.0 | 10.0 |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 8:15 | 20.7 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 8:15 | 20.9 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 13:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 8:15 | 20.8 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 13:15 | 20.8 | | |
| | | | | Average | 20.8 | | |
| | | | | Min. | 20.7 | | |
| | | | | Max. | 20.9 | | |
| | | | - | | | | |

Landfill Gas Monitoring Results on Carbon Dioxide Level

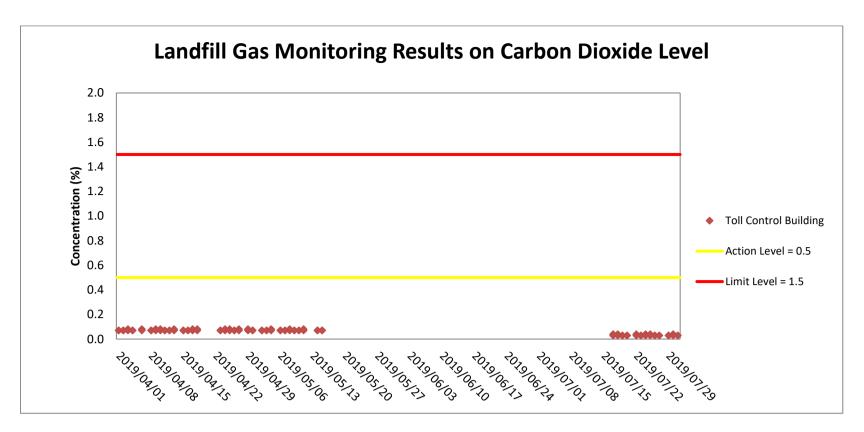
| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Results (%) | Action Level (%) | Limit Level (%) |
|---------|------------|------------------|------------------------|----------------------|-------------|------------------|-----------------|
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 8:15 | 0.04 | | |
| TMCLKL | HY/2017/10 | 2019/07/17 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 8:15 | 0.04 | | |
| TMCLKL | HY/2017/10 | 2019/07/18 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/19 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/20 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 8:15 | 0.04 | | |
| TMCLKL | HY/2017/10 | 2019/07/22 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/23 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 8:15 | 0.04 | 0.5 | 1.5 |
| TMCLKL | HY/2017/10 | 2019/07/24 | Ventilation Plant Room | 13:15 | 0.03 | 0.5 | 1.5 |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 8:15 | 0.04 | | |
| TMCLKL | HY/2017/10 | 2019/07/25 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/26 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/27 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/29 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 8:15 | 0.04 | | |
| TMCLKL | HY/2017/10 | 2019/07/30 | Ventilation Plant Room | 13:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 8:15 | 0.03 | | |
| TMCLKL | HY/2017/10 | 2019/07/31 | Ventilation Plant Room | 13:15 | 0.03 | | |
| | | | | Average | 0.03 | | |
| | | | | Min. | 0.03 | | |
| | | | | Max. | 0.04 | | |
| | | | | | | - | |





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, Electrical and Mechanical Works at Ventilation Plant Room, North Ventilation Room and Tunnel, Building Structure at Administration Building, Maintenance Depot, Fire Services Building, Customs and Excise Building and Satellite Control Building and Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2 and Underpass at C3 area.



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, Electrical and Mechanical Works at Ventilation Plant Room, North Ventilation Room and Tunnel, Building Structure at Administration Building, Maintenance Depot, Fire Services Building, Customs and Excise Building and Satellite Control Building and Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk N2 and Underpass at C3 area. Appendix I

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 | al Quantities of Inert C&D Materials Generation Actual Quantities of C&D wastes Generation Actual Quantities of Recyclables Generation | | | | | | | | | |
|----------------|-----------------------------|---|--|-----------------------------|-----------------------------|-----------------------|----------------|----------------|----------|--------------|----------------------------------|----------|
| 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 | - | - | 0.042 | - |
| Feb | 2.474 | 0.008 | 0.345 | - | 2.129 | - | - | 67.230 | - | - | 0.049 | - |
| Mar | 0.079 | 0.060 | - | - | 0.079 | - | - | 73.690 | - | - | - | - |
| Apr | 0.013 | - | - | - | 0.013 | - | - | 56.730 | - | - | - | - |
| Мау | - | - | - | - | - | - | - | 62.240 | - | - | - | - |
| Jun | 0.011 | 0.004 | - | - | 0.011 | - | - | 118.070 | - | - | - | - |
| SUB-TOTAL | 4.666 | 0.072 | 0.495 | 0.000 | 4.171 | 0.000 | 0.000 | 452.640 | 0.000 | 0.000 | 0.091 | 0.000 |
| Jul | 0.058 | - | - | - | 0.058 | - | - | 148.880 | - | - | - | - |
| Aug | - | - | - | - | - | - | - | - | - | - | - | - |
| Sep | - | - | - | - | - | - | - | - | - | - | - | - |
| Oct | - | - | - | - | - | - | - | - | - | - | | - |
| Nov | - | - | - | - | - | - | - | - | - | - | - | - |
| Dec | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 4.724 | 0.072 | 0.495 | 0.000 | 4.229 | 0.000 | 0.000 | 601.520 | 0.000 | 0.000 | 0.091 | 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 J

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

Appendix J1 Cumulative Statistics on Exceedances

| | | Total No. recorded in this reporting month | Total No. recorded since contract commencement |
|-----------|--------|--|--|
| 1-Hr TSP | Action | 2 | 27 |
| | Limit | 1 | 3 |
| 24-Hr TSP | Action | 0 | 2 |
| | Limit | 0 | 0 |

Appendix J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Cumulative Statistics | | | | | |
|--|-----------------------|------------------|--------------|--|--|--|
| | Complaints | Notifications of | Successful | | | |
| | | Summons | Prosecutions | | | |
| This Reporting Month (July 2019) | 0 | 0 | 0 | | | |
| Total No. received since contract commencement | 1 | 0 | 0 | | | |

Email message

| message | | 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 | E-mail: jasmine.ng@erm.com |
| | Tuen Mun - Chek Lap Kok Link - Northern | |
| | Connection Tunnel Buildings, Electrical and | |
| | Mechanical Works | ł |
| Subject | Notification of Exceedance for Air Quality Impact Monitoring | ERM |
| Date | 24 July 2019 | |

Environmental

Dear Sir/ Madam,

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

<u>Action Level Exceedance</u> 0463091_10July2019_1hrTSP_Station ASR6

One (1) exceedance was recorded on 10 July 2019.

Regards,

amin

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 | | | | | | |
|---|---|--|--|--|--|--|--|
| | 0463091_10July2019_1hrTSP_Station ASR6 | | | | | | |
| | | [Total No. of Exceedances = 1] | | | | | |
| Date | | 10 July 2019 (Measured) | | | | | |
| | 19 July | v 2019 (Results obtained from ENPO Website) | | | | | |
| Monitoring Station | | ASR1, ASR5, ASR6, ASR10, AQMS1 | | | | | |
| Parameter(s) with 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 (μg/m ³) | 260 | | | | | |
| Measured Levels | Refer to the attached data shee | et a a ar our rom on ra o 212 | | | | | |
| Works Undertaken (at the time of monitoring event) | | Contract on 10 July included: inistration Building, Maintenance Depot, Customs and Excise Building (<i>refer to Contractor's photo</i>) | | | | | |
| Possible Reason for Action or Limit Level Exceedance(s) | The exceedances are unlikely to be due to the Contract, in view of the following: Apart from exceedance of 1-hr TSP at ASR6 during 14:15-15:15 on 10 July 2019, all 1-hr TSP levels and 24-hr TSP levels at all monitoring stations were in compliance with the Action and Limit Levels on the same day. With reference to the recorded wind direction (ranged between 198° and 272° when 1-hr TSP exceedance was recorded blowing from a southerly to westerly direction) during the works period, ASR6 is located downstream of the Toll Control Building, Administration Building and Maintenance Depot. However, building structure was conducted at the Administration Building and Maintenance Depot which are not major dust generating works. There are no major unpaved road in the site area of Northern Landfall under this Contract. In addition, all road are paved at Toll Control Building. | | | | | | |
| Actions Taken / To Be | | ded to ensure all dust suppression measures are implemented at the | | | | | |
| Taken | | r for future trends in exceedances. | | | | | |
| Remarks | 0 | aly and locations of air quality monitoring stations are attached. The er this Contract is attached. The attached wind data on 10 July 2019 Y/2012/08 for reference. | | | | | |

Results of Air Quality Monitoring

| | | Date (yyyy-mm- | | Time (hh:mm, | | | |
|---------|------------|----------------|---------|--------------|-------------|---------|-------|
| Project | Contract | dd) | Station | 24hour) | Parameter | Results | Unit |
| TMCLKL | HY/2012/08 | 2019-07-10 | AQMS1 | 13:49 | 1-hour TSP | 160 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | AQMS1 | 14:51 | 1-hour TSP | 63 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | AQMS1 | 15:53 | 1-hour TSP | 29 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR1 | 13:37 | 1-hour TSP | 72 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR1 | 14:39 | 1-hour TSP | 53 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR1 | 15:41 | 1-hour TSP | 21 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR10 | 13:02 | 1-hour TSP | 14 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR10 | 14:04 | 1-hour TSP | 151 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR10 | 15:06 | 1-hour TSP | 35 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR5 | 13:25 | 1-hour TSP | 107 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR5 | 14:27 | 1-hour TSP | 153 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR5 | 15:29 | 1-hour TSP | 19 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR6 | 13:13 | 1-hour TSP | 75 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR6 | 14:15 | 1-hour TSP | 372 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR6 | 15:17 | 1-hour TSP | 30 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | AQMS1 | 16:55 | 24-hour TSP | 41 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR1 | 16:43 | 24-hour TSP | 48 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR10 | 16:08 | 24-hour TSP | 27 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR5 | 16:31 | 24-hour TSP | 59 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-10 | ASR6 | 16:19 | 24-hour TSP | 40 | ug/m3 |

Note:

Indicates Exceedance of Action Level Indicates Exceedance of Limit Level

PHOTO BY CONTRACTOR ON 10 JULY 2019



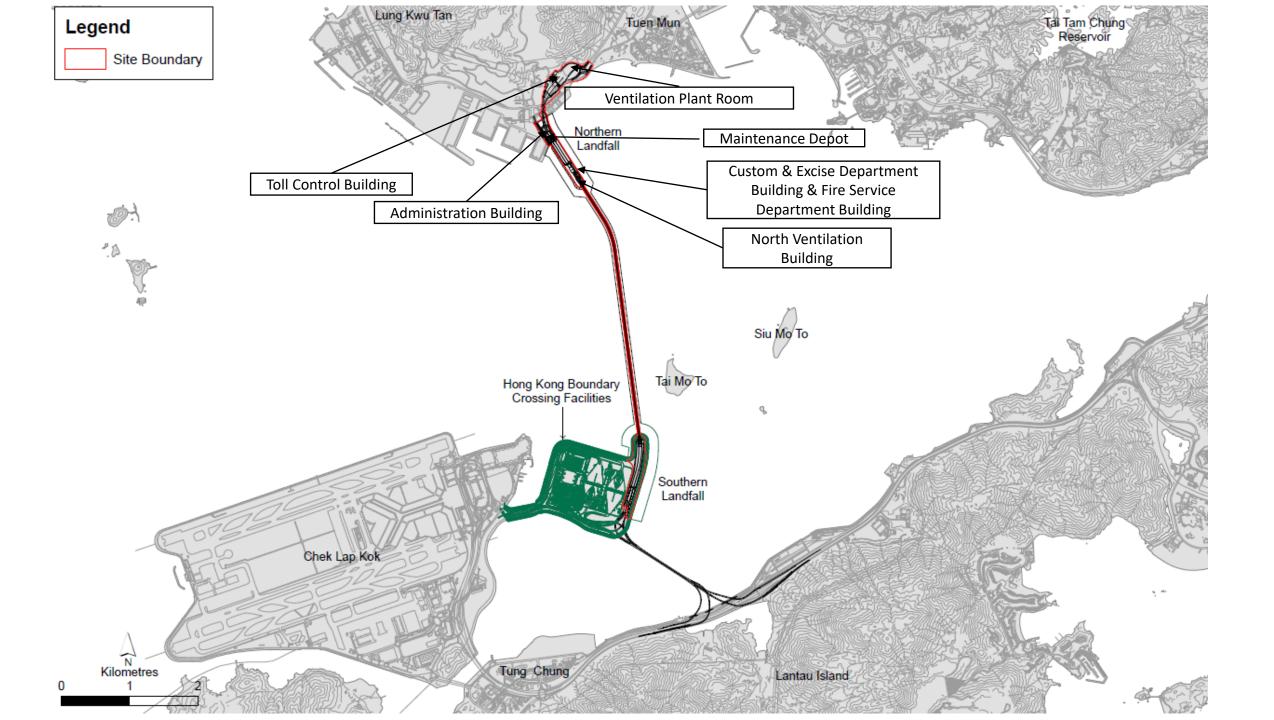
Photo 2 - Building structure was conducted at works area of Maintenance Depot (10 July 2019)

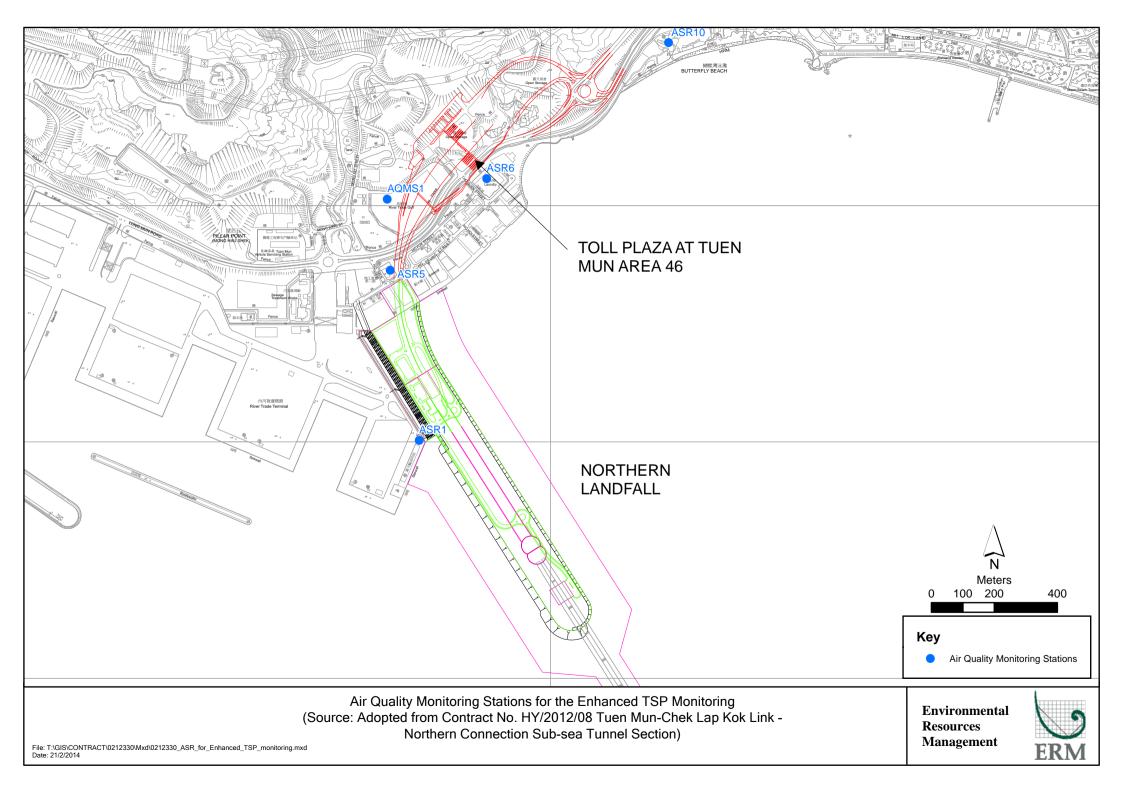


Photo 1- Paved road at works area of Toll Control Building (10 July 2019)

| | Meteorological | Data for Impact Monitoring in t | the reporting period* |
|-----------------|----------------|---------------------------------|-----------------------------------|
| Date (yy-mm-dd) | Time (24hrs) | Average of Wind Speed (m/s) | Average of Wind Director (degree) |
| 19/07/10 | 0:00 | 0.9 | 195 |
| 19/07/10 | 1:00 | 0.9 | 235 |
| 19/07/10 | 2:00 | 1.8 | 197 |
| 19/07/10 | 3:00 | 2.2 | 194 |
| 19/07/10 | 4:00 | 1.3 | 223 |
| 19/07/10 | 5:00 | 0.4 | 203 |
| 19/07/10 | 6:00 | 1.8 | 200 |
| 19/07/10 | 7:00 | 1.8 | 192 |
| 19/07/10 | 8:00 | 1.8 | 195 |
| 19/07/10 | 9:00 | 1.3 | 223 |
| 19/07/10 | 10:00 | 2.7 | 193 |
| 19/07/10 | 11:00 | 1.8 | 203 |
| 19/07/10 | 12:00 | 3.6 | 203 |
| 19/07/10 | 13:00 | 1.3 | 268 |
| 19/07/10 | 14:00 | 3.1 | 198 |
| 19/07/10 | 15:00 | 0.9 | 272 |
| 19/07/10 | 16:00 | 0 | 274 |
| 19/07/10 | 17:00 | 0 | 265 |
| 19/07/10 | 18:00 | 0 | 304 |
| 19/07/10 | 19:00 | 0 | 126 |
| 19/07/10 | 20:00 | 0.9 | 63 |
| 19/07/10 | 21:00 | 0.9 | 96 |
| 19/07/10 | 22:00 | 0.9 | 59 |
| 19/07/10 | 23:00 | 0.4 | 62 |

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section





Email message

| message | | 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 | 13 August 2019 | |

Environmental

Dear Sir/ Madam,

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

<u>Action Level Exceedance</u> 0463091_28July2019_1hrTSP_Station ASR5

Limit Level Exceedance 0463091_28July2019_1hrTSP_Station ASR1

Two (2) exceedances were recorded on 28 July 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

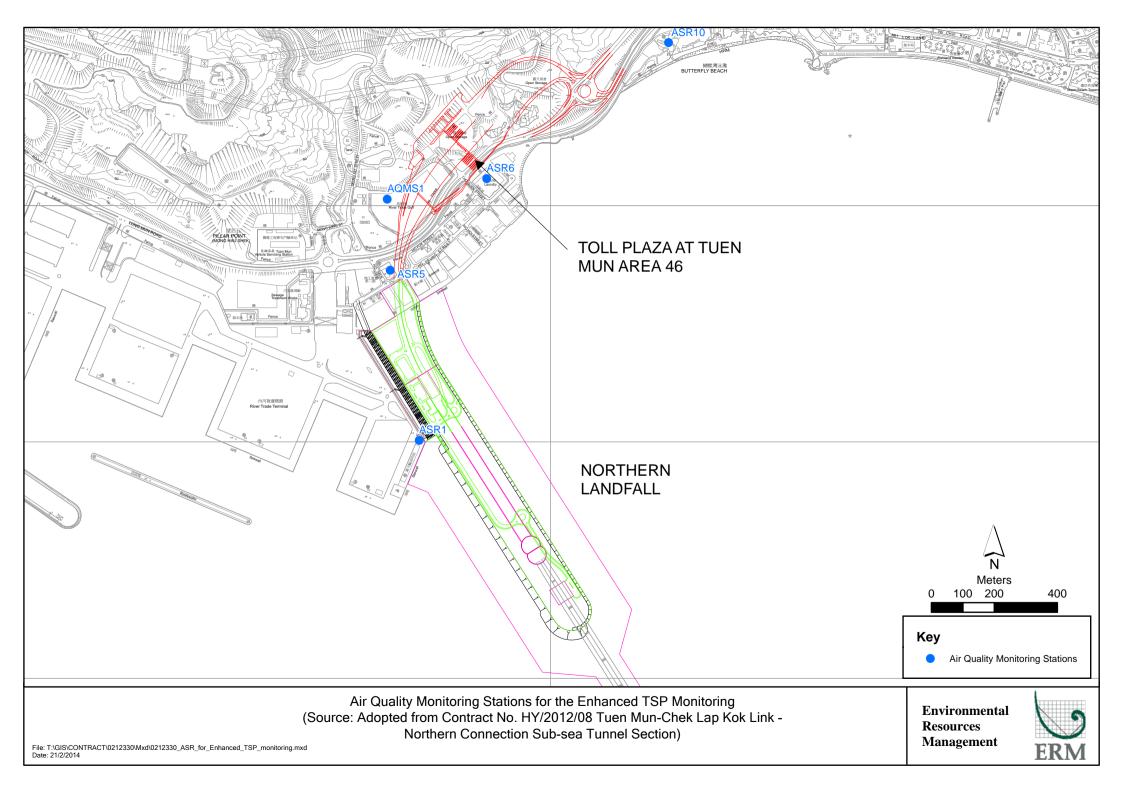
| T NT- | | Astis a Long Trans James | | | | | |
|------------------------|--|--------------------------|--|--|--|--|--|
| Log No. | Action Level Exceedance | | | | | | |
| | 0463091_28July2019_1hrTSP_Station ASR5 | | | | | | |
| | Limit Level Exceedance | | | | | | |
| | 0463091_28July2019_1hrTSP_Station ASR1 | | | | | | |
| | [Total No. of Exceedances = 2] | | | | | | |
| Date | 28 July 2019 (Measured) | | | | | | |
| | 13 August 2019 (Results obtained from ENPO Website) | | | | | | |
| Monitoring Station | ASR1, ASR5, ASR6, ASR10, AQMS1 | | | | | | |
| Parameter(s) with | 1- hr TSP | | | | | | |
| Exceedance(s) | | | | | | | |
| Action Levels | 1-hr TSP ($\mu g/m^3$) | ASR1 = 331 | | | | | |
| | | ASR5 = 340 ASR6 = 338 | | | | | |
| | | ASR10 = 335 | | | | | |
| | | AQMS1 = 337 | | | | | |
| | 24-hr TSP (μg/m ³) | ASR1 = 213 | | | | | |
| | | ASR5 = 238 | | | | | |
| | | ASR6 = 238 | | | | | |
| | | ASR10 = 214 | | | | | |
| | | AQMS1 = 213 | | | | | |
| Limit Levels | 1-hr TSP (μg/m ³) | 500 | | | | | |
| | 24-hr TSP (μg/m ³) | 260 | | | | | |
| Measured Levels | Refer to the attached data sheet (Data are source from Contract No. HY/2012/08). | | | | | | |
| Works Undertaken (at | No Works were undertaken under this Contract on 28 July 2019. | | | | | | |
| the time of monitoring | | | | | | | |
| event) | | | | | | | |
| Possible Reason for | The exceedances are unlikely to be due to the Contract, in view of the following: | | | | | | |
| Action or Limit Level | According to the construction information provided by the Contractor, no construction | | | | | | |
| Exceedance(s) | works was carried out on site on 28 July 2019. | | | | | | |
| | There are no major unpaved road and no exposed area under this Contract. | | | | | | |
| | Based on the above, the exceedances are unlikely to be due to the Contract. | | | | | | |
| Actions Taken / To Be | The Contractor has been reminded to ensure all dust suppression measures are implemented at the | | | | | | |
| Taken | site area. The ET will monitor for future trends in exceedances. | | | | | | |
| Remarks | The monitoring results on 28 July and locations of air quality monitoring stations are attached. The | | | | | | |
| | attached wind data on 28 July 2019 is sourced from Contract No. HY/2012/08 for reference. | | | | | | |

Results of Air Quality Monitoring

| | | Date (yyyy-mm- | | Time (hh:mm, | | | |
|---------|------------|----------------|---------|--------------|-------------|---------|-------|
| Project | Contract | dd) | Station | 24hour) | Parameter | Results | Unit |
| TMCLKL | HY/2012/08 | 2019-07-28 | AQMS1 | 8:51 | 1-hour TSP | 37 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | AQMS1 | 9:33 | 1-hour TSP | 165 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | AQMS1 | 10:55 | 1-hour TSP | 77 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR1 | 8:40 | 1-hour TSP | 64 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR1 | 9:42 | 1-hour TSP | 646 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR1 | 10:44 | 1-hour TSP | 108 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR10 | 8:05 | 1-hour TSP | 21 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR10 | 9:07 | 1-hour TSP | 105 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR10 | 10:09 | 1-hour TSP | 35 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR5 | 8:28 | 1-hour TSP | 52 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR5 | 9:30 | 1-hour TSP | 410 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR5 | 10:32 | 1-hour TSP | 123 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR6 | 8:16 | 1-hour TSP | 37 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR6 | 9:18 | 1-hour TSP | 175 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR6 | 10:20 | 1-hour TSP | 152 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | AQMS1 | 11:57 | 24-hour TSP | 39 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR1 | 11:46 | 24-hour TSP | 84 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR10 | 11:11 | 24-hour TSP | 23 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR5 | 11:34 | 24-hour TSP | 57 | ug/m3 |
| TMCLKL | HY/2012/08 | 2019-07-28 | ASR6 | 11:22 | 24-hour TSP | 32 | ug/m3 |

Note:

Indicates Exceedance of Action Level Indicates Exceedance of Limit Level



| M | eteorological 1 | Data for Impact Monitoring in | the reporting period* |
|-----------------|-----------------|-------------------------------|-----------------------------------|
| Date (yy-mm-dd) | Time (24hrs) | Average of Wind Speed (m/s) | Average of Wind Director (degree) |
| 19/07/28 | 0:00 | 0 | - |
| 19/07/28 | 1:00 | 0 | - |
| 19/07/28 | 2:00 | 0 | - |
| 19/07/28 | 3:00 | 0 | - |
| 19/07/28 | 4:00 | 0 | - |
| 19/07/28 | 5:00 | 0 | - |
| 19/07/28 | 6:00 | 0 | - |
| 19/07/28 | 7:00 | 0 | - |
| 19/07/28 | 8:00 | 1.3 | 271 |
| 19/07/28 | 9:00 | 0.9 | 199 |
| 19/07/28 | 10:00 | 0 | - |
| 19/07/28 | 11:00 | 0 | - |
| 19/07/28 | 12:00 | 0.4 | 115 |
| 19/07/28 | 13:00 | 1.3 | 202 |
| 19/07/28 | 14:00 | 0.9 | 203 |
| 19/07/28 | 15:00 | 1.8 | 131 |
| 19/07/28 | 16:00 | 0.4 | 180 |
| 19/07/28 | 17:00 | 0.4 | 101 |
| 19/07/28 | 18:00 | 0.9 | 89 |
| 19/07/28 | 19:00 | 0.4 | 80 |
| 19/07/28 | 20:00 | 0.4 | 79 |
| 19/07/28 | 21:00 | 0.4 | 95 |
| 19/07/28 | 22:00 | 0 | - |
| 19/07/28 | 23:00 | 0.9 | 61 |

*Wind data is sourced from Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section