



# **Development at West Kowloon Cultural District**

Monthly Environmental Monitoring and Audit  
(EM&A) Report for January 2020

February 2020



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**This Monthly EM&A Report has been reviewed and certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).**

**Certified by:**



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CK Wu  
Environmental Team Leader (ETL)  
West Kowloon Cultural District Authority

**Date**

13 February 2020

**Verified by:**



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Fredrick Leong  
Independent Environmental Checker (IEC)  
Meinhardt Infrastructure & Environment Ltd

**Date**

13 Feb 2020

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# Executive Summary

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO.

This Monthly EM&A Report presents the monitoring works at M+ Museum and Lyric Theatre Complex from 1 January to 31 January 2020.

## **Exceedance of Action and Limit Levels**

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting month.

## **Implementation of Mitigation Measures**

Construction phase weekly site inspections were carried out on 7, 14, 21 and 30 January 2020 for M+ Museum and 3, 8, 15, 22 and 31 January 2020 for Lyric Theatre Complex to confirm the implementation measures undertaken by the Contractors in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspections during the reporting month. No adverse comment on landscape and visual aspects was made during these inspections.

FEHD site inspection with contractor was conducted on 3 January 2020 at M+ Museum. No adverse comment was made.

EPD site inspection with contractor was conducted on 10 January 2020 at M+ Museum. No adverse comment was made.

## **Record of Complaints**

No environmental complaint was recorded in the reporting month.

## **Record of Notifications of Summons and Successful Prosecutions**

No notifications of summons and successful prosecutions were recorded in the reporting month.

## **Future Key Issues**

The major site works for M+ Museum scheduled to be commissioned in the coming month include:

- Structure
  - M+ Podium: Structural works completed
  - CSF RF: Structural works completed
  - RDE RF: Structural works completed
- Facade
  - Installation of panels on M+ tower completed
  - Installation of panels on RDE completed
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 16/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 8/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F - 3/F
  - Blockwork plaster, paint/sealer, plaster, drywall subframe, Front of house work wall plastering work up to M+ 16/F
  - Steel platform, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE up to 15/F
  - ABWF works at CSF building from 1/F to 8/F majority finished
- Other
  - Paving works & landscaping works (soil mix) at M+ Podium 3/F
  - Paving works at M+ 1/F, G/F & B1/F

The major site works for L1 scheduled to be commissioned in the coming month include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

The major site works for L2 scheduled to be commissioned in the coming month include:

- Visual Mock Up
  - Install VMU
- LTC construction
  - VIS installation
  - B2 construction
  - B2U/F and B1L/F construction
- Extended Basement
  - Builder's works in extended basement (south)
  - BS installation (south B2)

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

# 1 Introduction

## 1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCD). The construction works and EM&A programme for M+ Museum and Lyric Theatre Complex commenced on 31 October 2015 and 1 March 2016 respectively.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an “engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000” (Item 3 of Schedule 3) and “an underpass more than 100m in length under the built areas” (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the “Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District” which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ Museum development aims to provide an iconic presence for the M+ Museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions.

The 1,200-seat Lyric Theatre Complex will be Hong Kong’s first world-class facility for dance performances, including ballet, contemporary and Chinese dance forms. In the run up to the opening of further major performing arts venues in the WKCD, it will also be used for a wide variety of performing arts events including drama, opera and musical performances. The Lyric Theatre Complex will act as a platform for Hong Kong’s leading arts organisations and be a new major venue to show programmes from Asia and worldwide.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/B. This Monthly EM&A Report presents the monitoring works at M+ Museum and Lyric Theatre Complex from 1 January to 31 January 2020. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

## 1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

## 1.3 Environmental Status in the Reporting Period

During the reporting period, construction works at M+ Museum undertaken include:

- Structure
  - M+ Podium: Structural works completed

- CSF RF: Structural works completed
- RDE RF: Structural works completed
- Facade
  - Installation of panels on M+ tower completed
  - Installation of panels on RDE completed
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 3/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 8/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F – 3/F
  - Blockwork plaster, paint/sealer, plaster, drywall subframe, Front of house work wall plastering work up to M+ 16/F
  - Steel platform, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE up to 15/F
  - ABWF works at CSF building from 1/F to 8/F majority finished
- Other
  - Paving works & landscaping works (soil mix) at M+ Podium 3/F

During the reporting period, construction works at L1 undertaken include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

During the reporting period, construction works at L2 undertaken include:

- Visual Mock Up
  - Install VMU
- LTC construction
  - VIS installation
  - B2 construction
  - B2U/F and B1L/F construction
- Extended Basement
  - Builder's works in extended basement (south)
  - BS installation (south B2)

The Construction Works Programme of M+ Museum and Lyric Theatre Complex is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.4**, **Table 4.5** and **Table 4.6** on the status of the environmental licenses.

## 1.4 Summary of EM&A Requirements

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

A summary of impact EM&A requirements is presented in **Table 1.1**.



**Table 1.1: Summary of Impact EM&A Requirements**

Parameters	Descriptions	Locations	Frequencies
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days
	24-Hour TSP	AM2B - 1st Floor of Gammon's Site Office	At least once every 6 days
	1-Hour TSP	AM2B - 1st Floor of Gammon's Site Office	At least 3 times every 6 days
Noise	L <sub>eq</sub> , 30 minutes	NM1A - International Commerce Centre	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly

Given that the Project covers only a small part of the whole WKCD area (i.e. M+ Museum, Lyric Theatre Complex and respective portions of underpass road), it was proposed that the EM&A programme for the Project should only require 1 noise monitoring station and 2 air quality monitoring stations located closest to the Project area. Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1, AM2 and NM1 were set up. Other monitoring locations are too far away (i.e. AM3 to AM5 and NM2 to NM5) are not included in this EM&A programme until the construction of the corresponding area commences.

The Harbourside management office formally rejected our proposal of setting up air quality and noise monitoring equipment on its premises at the podium level of Tower 1 (AM2/NM1) on 10 November 2015. Alternative noise monitoring location was identified at The Arch (NM2), however The Arch management office formally rejected our proposal of setting up noise monitoring equipment on its premises on 23 November 2015. Nevertheless, suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1, which is at the same location as that of baseline monitoring for consistency. No management approval is required at the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016 and was no longer available. In order to have a more secure electricity supply, an alternative air monitoring location (AM2A) was identified at Austin Road West opposite to The Harbourside Tower 1, which is close to Lyric Theatre Complex site entrance. This alternative air monitoring location was approved by EPD on 28 September 2016. Due to works programme, the air monitoring location AM2A has been relocated to the alternative monitoring location AM2B at the 1st floor of Gammon's site office, which was approved by EPD on 21 February 2019. Meanwhile, the opportunity of setting up the air monitoring location at The Harbourside is being explored. Noise monitoring at G/F of Harbourside will not be representative. Approval from the management office of the International Commerce Centre has been granted on 29 February 2016 for conducting noise monitoring at the alternative noise monitoring location identified at the podium floor (NM1A) which is free from screening to the construction activities. Therefore, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

## 2 Impact Monitoring Methodology

### 2.1 Introduction

For air quality and noise, the monitoring methodology, including the monitoring locations, monitoring equipment used, monitoring parameters, and frequency and duration etc., for air quality and noise are detailed in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring Schedule for the coming month are provided in **Appendix E**.

For landscape and audit impact, the relevant EM&A monitoring requirements and details are also presented in this Section.

### 2.2 Air Quality

#### 2.2.1 Monitoring Parameters, Frequency and Duration

**Table 2.1** summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

**Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration**

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

#### 2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2B were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1**.

**Table 2.2: Air Quality Monitoring Station**

Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2B	1st Floor of Gammon's Site Office

#### 2.2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was conducted using High Volume Sampler (HVS) (Model: TE-5170) located at the designated monitoring station. The HVS meets all the requirements stated in of the EM&A Manual. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. **Table 2.3** summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the HVS, calibration kit and portable dust meters are attached in **Appendix F**.

**Table 2.3: TSP Monitoring Equipment**

Equipment	Model
<b>24-hour TSP monitoring</b>	
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)
Calibrator	TE-5025A (Orifice I.D.: 2454)
<b>1-hour TSP monitoring</b>	

Equipment	Model
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 456668 and 276019)

Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**

The 1-hour TSP monitoring should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

## 2.2.4 Monitoring Methodology

### 24-hour TSP Monitoring

#### Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

#### Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 µm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

#### Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.

- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m<sup>3</sup>/min. The range specified in the EM&A Manual was between 0.6-1.7 m<sup>3</sup>/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

### **Maintenance and Calibration**

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.
- Calibration records for HVS and calibration kit are shown in **Appendix F**.

### 1-hour TSP Monitoring

#### **Field Monitoring**

The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.
- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 1 hour for the 1-hour TSP measurement.
- Push "START/STOP" to start the 1-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 1 hour.

### **Maintenance and Calibration**

- The 1-hour dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in **Appendix F**.

### **Weather Condition**

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

## 2.3 Noise

### 2.3.1 Monitoring Parameters, Frequency and Duration

**Table 2.4** summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  are recorded in a 30-minute interval between 0700 and 1900 hours.

**Table 2.4: Noise Monitoring Parameters, Period and Frequency**

Time Period	Parameters	Frequency
Daytime on normal weekdays (0700-1900 hours)	$L_{eq}$ (30 min), $L_{90}$ (30 min) & $L_{10}$ (30 min)	Once every week

### 2.3.2 Monitoring Location

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1A was set up at the proposed location in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.5** and shown in **Figure 1**.

**Table 2.5: Noise Monitoring Station**

Monitoring Station	Location
NM1A	International Commerce Centre (ICC)

### 2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{Aeq}$ ) and percentile sound pressure level ( $L_x$ ). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

**Table 2.6: Noise Monitoring Equipments**

Monitoring Station	Equipment Model	
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-52 (Serial No. 00175561)	LARSON DAVIS CAL200 (Serial No. 11333)

### 2.3.4 Monitoring Methodology

#### Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at the monitoring locations.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting: A
  - time weighting: Fast
  - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.
- During the monitoring period, the  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

### Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The sound level meter and calibrator are sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- Calibration records are shown in **Appendix F**.

### Weather Condition

- Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

## 2.4 Landscape and Visual

### 2.4.1 Monitoring Program

**Table 2.7** details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

**Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase**

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter-signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

## 3 Monitoring Results

### 3.1 Impact Monitoring

Construction impact monitoring for air quality, noise and landscape and visual impact was undertaken in compliance with the EM&A Manual during the reporting month.

### 3.2 Air Quality Monitoring

#### 3.2.1 1-hour TSP

Results of 1-hour TSP at the monitoring location AM1 and AM2B are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

**Table 3.1: Summary of 1-hour TSP monitoring results**

Monitoring Station	Monitoring Date	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1st Result	2nd Result	3rd Result			
AM1	04-Jan-20	8:12	78	81	64	27-81	273.7	500
	10-Jan-20	13:12	31	29	27			
	16-Jan-20	13:18	55	59	60			
	22-Jan-20	8:14	27	29	36			
	24-Jan-20	13:10	31	29	28			
	30-Jan-20	8:11	51	48	44			
AM2B	04-Jan-20	8:27	91	86	99	44-99	274.2	500
	10-Jan-20	13:27	44	49	50			
	16-Jan-20	13:32	71	68	61			
	22-Jan-20	8:28	49	55	59			
	24-Jan-20	13:24	46	56	59			
	30-Jan-20	8:25	64	60	60			

#### 3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2B are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

**Table 3.2: Summary of 24-hour TSP monitoring results**

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
AM1	04-Jan-20	8:10	64	13-64	143.6	260
	10-Jan-20	8:10	13			
	16-Jan-20	8:20	41			
	22-Jan-20	8:12	28			
	24-Jan-20	8:08	26			
	30-Jan-20	8:09	42			
AM2B	04-Jan-20	8:25	77	26-77	151.1	260
	10-Jan-20	8:25	26			
	16-Jan-20	8:34	71			

Monitoring Station	Monitoring Date	Start Time	Monitoring Results ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	22-Jan-20	8:26	66			
	24-Jan-20	8:22	64			
	30-Jan-20	8:23	60			

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

### 3.3 Noise Monitoring

The construction noise monitoring results at the monitoring location NM1A are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up of a free-field measurement are shown in **Appendix G**.

**Table 3.3: Summary of noise monitoring results during normal weekdays**

Monitoring Date	Start Time	End Time	$L_{\text{eq}}$ (30 mins)*, dB(A)	Limit Level for $L_{\text{eq}}$ (dB(A))
10-Jan-20	10:35	11:05	69	
16-Jan-20	10:40	11:10	68	
22-Jan-20	10:33	11:03	68	75
30-Jan-20	10:30	11:00	68	

Remarks:

\* +3dB (A) correction was applied to free-field measurement.

No exceedance (Action/Limit Level) of construction noise was recorded in the reporting period as no noise related environmental complaint was received during the reporting period and noise levels recorded during the monitoring period were below 75 dB(A).

### 3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 7 and 21 January 2020 for M+ Museum, and 3, 15 and 31 January 2020 for Lyric Theatre Complex during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures is provided in **Appendix J**.



## 4 Environmental Site Inspection

### 4.1 Site Inspection

#### 4.1.1 M+ Museum

Construction phase weekly site inspections were carried out on 7, 14, 21 and 30 January 2020. The joint site inspection with IEC, ET, ER and Contractor was held on 14 January 2020. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

FEHD site inspection with contractor was conducted on 3 January 2020. No adverse comment was made. FEHD reminded the contractor to remove the stagnant water trapped in the temporary drain regularly or applied with larvicide if necessary.

EPD site inspection with contractor was conducted on 10 January 2020. Wastewater treatment facilities and external area were inspected. No adverse comment was made. EPD reminded the contractor to maintain water spraying for haul road at external area.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.1**.

**Table 4.1: Summary of Site Inspections and Recommendations for M+ Museum**

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
07-Jan-20	Air Quality	The contractor was reminded to cover the cement bags with impervious sheeting end of the working day.	The contractor has covered the cement bags with impervious sheeting.	08-Jan-20
07-Jan-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
14-Jan-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
21-Jan-20	Water Quality	The contractor was reminded to provide hard paving at the wheel washing area (Gate 1) to prevent sand carry out of the site.	The contractor has provided metal plates at the wheel washing area (Gate 1).	22-Jan-20
21-Jan-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A
30-Jan-20	Water Quality	Effluent quality of wetsep was checked. It was found visually clear when comparing with standard solution and within proper pH range.	N/A	N/A

#### 4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 3, 8, 15, 22 and 31 January 2020 for both L1 and L2 Contract . The joint site inspection with IEC, ET, ER and Contractor was held on 8 January 2020. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.2 and Table 4.3.**

**Table 4.2: Summary of Site Inspections and Recommendations for L1**

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
03-Jan-20	Water Quality	The contractor was reminded to provide earth bund near the site exit to prevent muddy water runoff outside the site boundary.	The contractor has provided earth bund near the site exit.	07-Jan-20
08-Jan-20	Water Quality	Algae was observed at wetsep #3. The contractor was reminded to clear the algae to keep good quality of discharge water.	The contractor has cleared the algae at wetsep.	10-Jan-20
15-Jan-20	Water Quality	Effluent was observed at site exit. The contractor was reminded to provide earth bund at the site boundary to prevent seepage out.	The contractor has provided cement bunding at the site boundary to prevent effluent seepage out.	17-Jan-20
22-Jan-20	Water Quality	The contractor was reminded to provide measurement at the valley to prevent effluent discharge out to the harbour.	The contractor has enhanced the drainage system to collect effluent to the wastewater treatment facility.	31-Jan-20

**Table 4.3: Summary of Site Inspections and Recommendations for L2**

Inspection Date	Parameter	Observation / Recommendation	Contractor's Responses / Action(s) Undertaken	Close-out (Date)
31-Jan-20	Air Quality	Discolour NRMM label was observed. The contractor was reminded to replace a clear label with correct colour.		On going

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

The Contractors have been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

### 4.2.1 M+ Museum

As advised by the Contractor, 0.0 tonnes, 92.61 tonnes, 258.44 tonnes, 53.24 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Fill Bank at Tuen Mun Area 38, Fill Bank at Tseung Kwan O Area 137 and Sorting Facilities at Tseung Kwan O Area 137 respectively, while 523.7 tonnes of general refuse were disposed of at SENT landfill. 133.2 tonnes of metals, 0.8 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 335.0 tonnes of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonnes of inert C&D materials were reused in other projects. 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

The cumulative waste generation records for M+ Museum are shown in **Appendix I.**

### 4.2.2 Lyric Theatre Complex

As advised by the L1 Contractor, 2,358.04 tonnes and 4,731.88 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively, while 65.7 tonnes of general refuse were disposed of at SENT and WENT landfill. 10.6 tonnes of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber was collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonnes of inert C&D materials were reused in other projects and 0.0 tonnes of inert C&D materials were imported for reuse at site. 0.0 tonnes of inert C&D materials were disposed to

sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

As advised by the L2 Contractor, 0.0 tonnes of inert C&D material was disposed of as public fill, and 0.0 tonnes of general refuse was disposed to landfill. 0.0 tonnes of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber was collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonnes of inert C&D materials were reused in other projects and 0.0 tonnes of inert C&D materials were imported for reuse at site. 0.0 tonnes of inert C&D materials were disposed to sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

The actual amounts of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting month are shown in **Appendix I**.

### 4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.4** and **Table 4.5** and **Table 4.6**.

#### 4.3.1 M+ Museum

**Table 4.4: Status of Environmental Submissions, Licenses and Permits for M+ Museum**

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
<b>Chemical Waste Producer Registration</b>				
WPN5213-217-G2347-53	04-Oct-18	--	Valid	--
<b>Billing Account Construction Waste Disposal</b>				
7031993	03-Oct-18	--	Account Active	--
<b>Construction Noise Permit</b>				
GW-RE0973-19	10-Dec-19	26-May-20	Valid	
<b>Wastewater Discharge License</b>				
WT-00033363-2019	21-Mar-19	31-Mar-24	Valid	--
WT-00035338-2019	20-Jan-20	31-Jan-25	Valid	--
<b>Notification under Air Pollution Control (Construction Dust) Regulation</b>				
437339	12-Sep-18	--	Notified	--

#### 4.3.2 Lyric Theatre Complex

**Table 4.5: Status of Environmental Submissions, Licenses and Permits for L1**

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
<b>Chemical Waste Producer Registration</b>				
WPN5213-217-G2347-39	17-Feb-16	--	Valid	--
<b>Billing Account Construction Waste Disposal</b>				
7029925	22-Jan-18	--	Account Active	--
<b>Billing Account Vessel Disposal</b>				
7033007	2-Dec-19	2-Mar-20	Account Active	--
<b>Construction Noise Permit</b>				
GW-RE0833-19	22-Oct-19	9-Apr-20	Valid	
<b>Wastewater Discharge License</b>				
WT-00030694-2018	11-Apr-18	30-Apr-23	Valid	--
<b>Notification under Air Pollution Control (Construction Dust) Regulation</b>				

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
429708	16-Jan-18	--	Notified	--

**Table 4.6: Status of Environmental Submissions, Licenses and Permits for L2**

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
<b>Chemical Waste Producer Registration</b>				
WPN5213-217-G2347-39	17-Feb-16	--	Valid	This license/permit is share with L1
<b>Billing Account Construction Waste Disposal</b>				
7032787	02-Jan-19	--	Account Active	--
<b>Construction Noise Permit</b>				
GW-RE0833-19	22-Oct-19	9-Apr-20	Valid	This license/permit is share with L1
<b>Wastewater Discharge License</b>				
WT-00030694-2018	11-Apr-18	30-Apr-23	Valid	This license/permit is share with L1
<b>Notification under Air Pollution Control (Construction Dust) Regulation</b>				
448474	27-Aug-19	--	Notified	--

#### 4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

##### 4.4.1 M+ Museum

###### Air Quality

- Dusty materials should be covered entirely by impervious sheeting.

###### Water Quality

- Adequately designed wheel washing facility should be provided at the site exit where practicable. Wash water sand and silt should be removed regularly.

##### 4.4.2 Lyric Theatre Complex

###### Water Quality

- Channels, earth bunds or sand bag barriers should be provided to prevent effluent discharge out the site.
- Ensure proper and efficient operation of the wastewater treatment facilities.

###### Air Quality

- All NRMMS should be affixed with the requisite/exemption labels.

## 5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

**Table 5.1: Status of Submissions under the Environmental Permit**

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for December 2019	14 January 2020

## 6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

### 6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit Levels for Air Quality and Noise monitoring in the reporting month.

### 6.2 Record on Environmental Complaints Received

No environmental complaint was received in the reporting month.

The cumulative statistics on complaints were provided in **Appendix K**.

### 6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecutions were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

## 7 Future Key Issues

### 7.1 Construction Works for the Coming Month(s)

#### 7.1.1 M+ Museum

The major site works for M+ Museum scheduled to be commissioned in the coming month include:

- Structure
  - M+ Podium: Structural works completed
  - CSF RF: Structural works completed
  - RDE RF: Structural works completed
- Facade
  - Installation of panels on M+ tower completed
  - Installation of panels on RDE completed
- MEP
  - BEL, ELV, BFS, BPD, BME works from B2 to 16/F of M+
  - BEL, ELV, BFS, BPD, BME works from G/F to 15/F of RDE
  - BEL, ELV, BFS, BPD, BME works from G/F to 8/F of CSF
- ABWF
  - Block wall erection, Floor screed for plant room area and corridor area, wall plastering, raised floor & dry wall work up to M+ G/F - 3/F
  - Blockwork plaster, paint/sealer, plaster, drywall subframe, Front of house work wall plastering work up to M+ 16/F
  - Steel platform, plastering, Artwall/drywall stud erection, False ceiling sub-frame installation of RDE up to 15/F
  - ABWF works at CSF building from 1/F to 8/F majority finished
- Other
  - Paving works & landscaping works (soil mix) at M+ Podium 3/F
  - Paving works at M+ 1/F, G/F & B1/F

#### 7.1.2 Lyric Theatre Complex

The major site works for L1 scheduled to be commissioned in the coming month include:

- Excavation work at Main Cofferdam
- Drainage work (PIW works)
- Extended basement structure construction of Area 06 and Main Cofferdam

The major site works for L2 scheduled to be commissioned in the coming month include:

- Visual Mock Up
  - Install VMU
- LTC construction
  - VIS installation
  - B2 construction

- B2U/F and B1L/F construction
- Extended Basement
  - Builder's works in extended basement (south)
  - BS installation (south B2)

## 7.2 Key Issues for the Coming Month

### 7.2.1 M+ Museum

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

### 7.2.2 Lyric Theatre Complex

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

## 7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. Impact monitoring for air quality and noise in accordance with the approved EM&A Manual has commenced since 31 October 2015 and 5 March 2016 respectively. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.



## 8 Conclusions and Recommendations

### 8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction of M+ Museum main works commenced on 31 October 2015, and the construction of Lyric Theatre Complex commenced on 1 March 2016.

Monitoring of air quality and noise with respect to the Projects is underway. In particular, the 1-hour TSP, 24-hour TSP, noise level (as  $L_{eq}$ , 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit Levels for 1-hour TSP, 24-hour TSP and noise in the reporting month.

No environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

### 8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

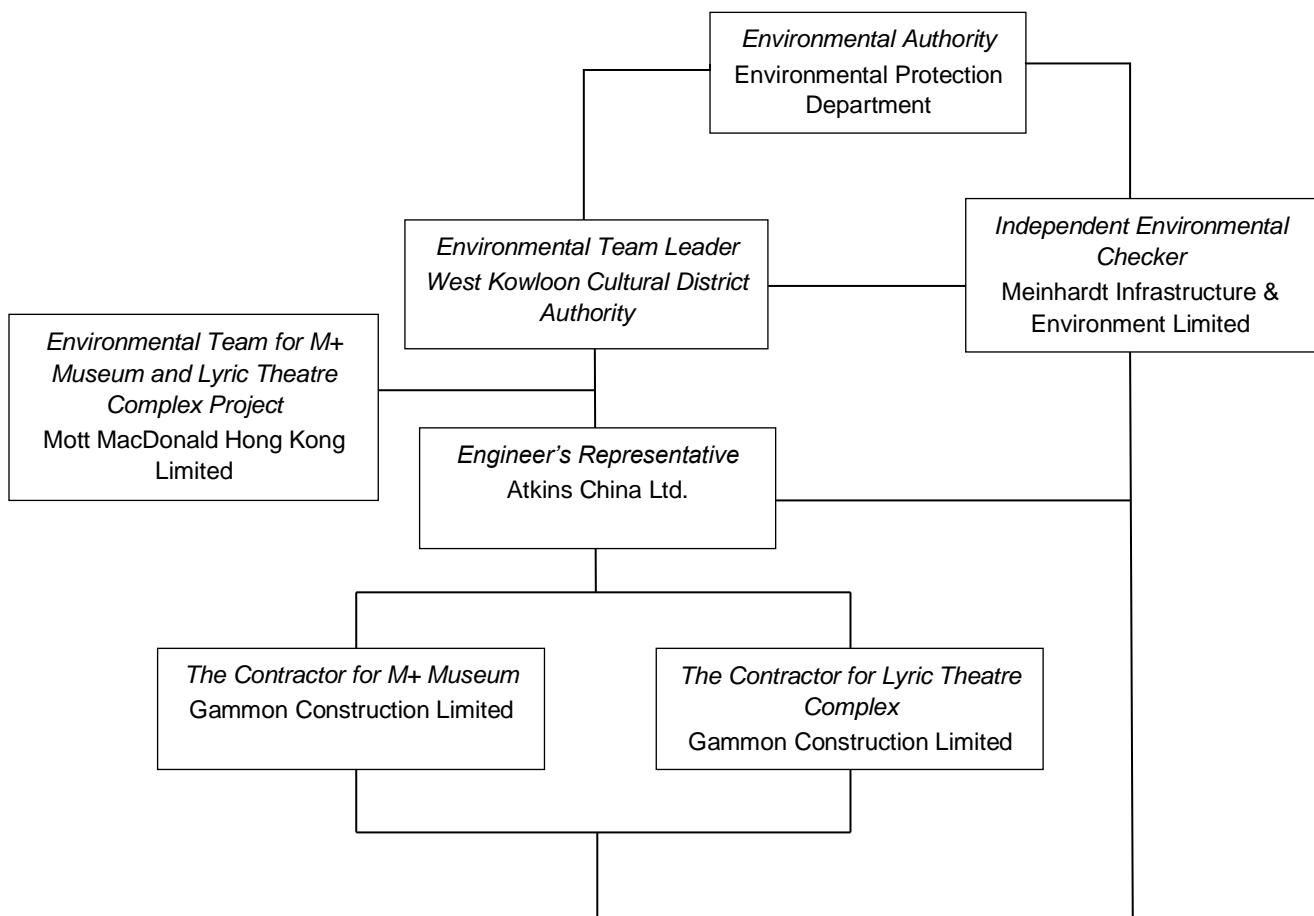
# Figure 1 Site Layout Plan and Monitoring Stations



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# A. Project Organisation



**Table A-1: Contact information**

Company Name	Role	Name	Telephone
Atkins China Ltd.	Assistant Resident Engineer	Ms. Gloria Lui	5506 6361
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Mr. Fredrick Leong	2859 1739
Gammon Construction Limited (M+ Museum)	Environmental Manager	Mr. Andy Leung	9489 0035
Gammon Construction Limited (L1)	Environmental Manager	Ms. Sammie Chan	9864 4296
Gammon Construction Limited (L2)	Environmental Manager	Mr. Ivan Chiu	9416 1664
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757
West Kowloon Cultural District Authority	Senior Project Manager (Safety, Health and Environment)	Mr. C.K. Wu	5506 9178

## **B. Tentative Construction Programme**

**M+ Museum**



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2019														
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>GENERAL &amp; PRELIMINARIES (Remaining Works @ 10 SEP 2018)</b>																								
<b>Establishment</b>																								
<b>Tower Cranes Establishment &amp; De-establishment</b>																								
7410	TC 3.1 - Demob Tower Crane (crane base @ POD L3 GLE-L11-12)	12	12-Dec-19	27-Dec-19	06-Mar-20	19-Mar-20	-64	100%	0%															
7415	TC 1.B - Demobilise Tower Crane (crane base @ GL2'+J)	6	04-Jan-20	17-Jan-20	17-Apr-20	23-Apr-20	-75	0%	0%															
<b>BASEMENT &amp; PODIUM</b>																								
<b>Construction</b>																								
<b>Initial Works, Establishment &amp; Miscellaneous</b>																								
14238a	POD - Architectural Lightings Installation (C41/42/86/90)	12	03-Feb-20	15-Feb-20	02-Jun-20	15-Jun-20	-101	0%	0%															
14238b	POD - Architectural Lightings Installation (C41/42/43/82/83/86)	12	10-Feb-20	22-Feb-20	03-Jun-20	16-Jun-20	-96	0%	0%															
14238c	POD - Architectural Lightings Installation (C50/65/88)	12	17-Feb-20	29-Feb-20	04-Jun-20	17-Jun-20	-91	0%	0%															
<b>*Auditorium &gt; GF (SZ7)</b>																								
<b>ABWF Works &amp; MEP Works</b>																								
9328	POD_AUD - All Other Finishes/Remedial/Cleaning Works	30	17-Jan-20	28-Feb-20	16-Apr-20	21-May-20	-69	0%	0%															
<b>Inclined structure High Level Works</b>																								
1151	POD_AUD - MEP works 1st, 2nd & final fix & Curtain System - Part 1 (**Jun19 DUR	6	09-Jul-19	02-Sep-19	26-Aug-19 A	08-Jan-20	-105	100%	82%															
1156	POD_AUD - MEP works Rem 1st, 2nd - Part 2	6	11-Oct-19	07-Nov-19	21-Oct-19 A	08-Jan-20	-51	100%	82%															
1157	POD_AUD - Install TWG Panels & Weld Test	18	25-Oct-19	14-Nov-19	16-Jan-20	13-Feb-20	-69	100%	0%															
10054	POD_AUD - MEP works Final Fix in TWG panels	12			14-Feb-20	27-Feb-20		0%	0%															
1159	POD_AUD - Remove Susp. Work Platform for HL Ceiling Wrks above Inclined Struc	12	15-Nov-19	28-Nov-19	28-Feb-20	12-Mar-20	-81	100%	0%															
1158	POD_AUD - Setting out & Install Glazed Walls	18	29-Nov-19	19-Dec-19	13-Mar-20	02-Apr-20	-81	100%	0%															
9062	POD_AUD - Install LED Screen Panels	12	03-Oct-19	17-Oct-19	01-Jun-20	13-Jun-20	-195	100%	0%															
<b>Inclined structure Low Level Works</b>																								
6848	POD_AUD - Underfloor MEP 1st, 2nd fix (under trusses)	3	23-Apr-19	14-May-19	27-May-19 A	04-Jan-20	-195	100%	95%															
6851	POD_AUD - MEP 1st, 2nd & final fix adjacent to steel trusses	6	19-Jun-19	03-Jul-19	12-Oct-19 A	09-Jan-20	-158	100%	70%															
6853	POD_AUD - Install Steel Plates on Trusses	4	29-Jun-19	06-Jul-19	16-Dec-19 A	06-Jan-20	-152	100%	40%															
6859	POD_AUD - Clean Concrete & Glazing Walls	6	10-Jan-20	16-Jan-20	23-Dec-19 A	08-Jan-20	7	0%	50%															
6857	POD_AUD - Install Metal Balustrade (* 2 shifts)	8	21-Dec-19	02-Jan-20	03-Feb-20*	11-Feb-20	-27	90.28%	0%															
6858	POD_AUD - Erect Metal Scaffold along the wall for curtain install	6	03-Jan-20	09-Jan-20	12-Feb-20	18-Feb-20	-27	0%	0%															
6860	POD_AUD - Install Curtains	9	17-Jan-20	07-Feb-20	20-Apr-20	29-Apr-20	-69	0%	0%															
6861	POD_AUD - Dismantle Scaffold (after curtains, conc./glazing remedial wrks)	6	24-Jan-20	14-Feb-20	30-Apr-20	07-May-20	-69	0%	0%															
6856	POD_AUD - Install Plywood Base & Timber Flooring (* 2 shifts) and door/ iron	20	28-Nov-19	21-Dec-19	07-May-20	30-May-20	-127	100%	0%															
<b>Cinemas (B1-GF)</b>																								
<b>ABWF Works &amp; MEP Works</b>																								
4037	POD_Cinema - All Other Finishes/Remedial/Cleaning Works	36	26-Nov-19	08-Jan-20	24-Mar-20	06-May-20	-93	83.33%	0%															
<b>180 Seats Cinema - POD_LG_Z18a</b>																								
3976	POD_LG_Z18a_C180 - Ceiling MEP 1st fix (*2 shifts, after GF underpinned)	3	19-Jul-19	06-Aug-19	18-Sep-19 A	04-Jan-20	-126	100%	96%															
9661	POD_LG_Z18a_C180 - MEP Low Level 1st fix	6	13-Sep-19	24-Sep-19	19-Sep-19 A	10-Jan-20	-88	100%	87%															
4013	POD_LG_Z18a_C180 - Low Level MEP 2nd fix (*2 shifts)	7	28-Oct-19	18-Nov-19	14-Oct-19 A	13-Jan-20	-46	100%	71%															
4010	POD_LG_Z18a_C180 - Close Ceilings (gypsum; acoustic panels later)	9	26-Aug-19	09-Sep-19	19-Oct-19 A	11-Jan-20	-102	100%	85%															
4016	POD_LG_Z18a_C180 - Low level MEP final fix (temp lighting for FS inspection, pen	12	22-Nov-19	03-Dec-19	19-Oct-19 A	20-Jan-20	-39	100%	40%															
4023	POD_LG_Z18a_C180 - Install Cinema Screen & MEP	15	12-Nov-19	25-Nov-19	19-Oct-19 A	20-Jan-20	-46	100%	50%															
4011	POD_LG_Z18a_C180 - Ceiling MEP final fix (*2 shifts) (temp lighting for FS inspecti	9	04-Sep-19	11-Sep-19	13-Jan-20	22-Jan-20	-109	100%	0%															
4010a	POD_LG_Z18a_C180 - Close Ceilings (acoustic panels over with permanent lightin	12			27-Feb-20*	11-Mar-20		0%	0%															
4014	POD_LG_Z18a_C180 - Steps Plywood (*2shifts)	6	27-Sep-19	05-Oct-19	02-Mar-20*	07-Mar-20	-122	100%	0%															
4017	POD_LG_Z18a_C180 - Walls finishes (acoustic panels)	21	15-Oct-19	11-Nov-19	02-Mar-20*	25-Mar-20	-107	100%	0%															
4015	POD_LG_Z18a_C180 - Install Carpets (*2 shifts)	7	21-Nov-19	29-Nov-19	19-Mar-20	27-Mar-20	-93	100%	0%															
4019	POD_LG_Z18a_C180 - Door & Ironmong	3	19-Nov-19	21-Nov-19	23-Mar-20	25-Mar-20	-98	100%	0%															
4036	POD_LG_Z18a_C180 - Install Curtain	3	26-Nov-19	28-Nov-19	01-Apr-20	06-Apr-20	-101	100%	0%															
4020	POD_LG_Z18a_C180 - Install Seating	12	30-Nov-19	13-Dec-19	04-Jun-20	17-Jun-20	-149	100%	0%															
<b>60 Seats Cinema - POD_LG_Z18b</b>																								
9665	POD_LG_Z18b_C60 - MEP Low Level 1st fix	3	09-Sep-19	16-Sep-19	09-Sep-19 A	04-Jan-20	-91	100%	86%															
1108	POD_LG_Z18b_C60 - Close Ceilings (gypsum; acoustic panels later)	6	22-Aug-19	30-Aug-19	11-Oct-19 A	08-Jan-20	-107	100%	90%															
1114	POD_LG_Z18b_C60 - MEP Low Level 2nd fix	7	10-Oct-19	23-Oct-19	16-Oct-19 A	11-Jan-20	-67	100%	86%															
1115	POD_LG_Z18b_C60 - Install Cinema Screen & MEP	12	17-Oct-19	23-Oct-19	17-Oct-19 A	18-Jan-20	-73	100%	50%															
1119	POD_LG_Z18b_C60 - Low level MEP final fix (temp lighting for FS inspection, perm	12	30-Oct-19	07-Nov-19	18-Oct-19 A	18-Jan-20	-60	100%	50%															
1109	POD_LG_Z18b_C60 - Ceiling MEP final fix	6	29-Aug-19	04-Sep-19	09-Jan-20	15-Jan-20	-109	100%	0%															
1108a	POD_LG_Z18b_C60 - Close Ceilings (acoustic panels incl permanent lighting)	8			27-Feb-20*	06-Mar-20		0%	0%															
1112	POD_LG_Z18b_C60 - Steps Plywood	6	20-Sep-19	26-Sep-19	02-Mar-20*	07-Mar-20	-129	100%	0%															
1113	POD_LG_Z18b_C60 - Walls finishes (acoustic panels)	12	02-Oct-19	16-Oct-19	09-Mar-20*	21-Mar-20	-126	100%	0%															
1116	POD_LG_Z18b_C60 - Door & Ironmong	3	24-Oct-19	26-Oct-19	23-Mar-20	25-Mar-20	-120	100%	0%															
1118	POD_LG_Z18b_C60 - Install Carpets	4	28-Oct-19	31-Oct-19	24-Mar-20	27-Mar-20	-118	100%	0%															
1117	POD_LG_Z18b_C60 - Install Curtain	2	24-Oct-19	25-Oct-19	01-Apr-20	03-Apr-20	-129	100%	0%															
1121	POD_LG_Z18b_C60 - Install Seating	7	01-Nov-19	08-Nov-19	27-Jun-20	26-Jun-20	-186	100%	0%															
<b>40 Seats Cinema - POD_LG_Z18c</b>																								
9671	POD_LG_Z18c_C40 - MEP Low Level 1st fix	6	29-Aug-19	02-Sep-19	16-Sep-19 A	08-Jan-20	-105	100%	83%															
1136	POD_LG_Z18c_C40 - MEP Low Level 2nd fix	9	26-Sep-19	11-Oct-19	07-Oct-19 A	11-Jan-20	-77	100%	78%															
1137	POD_LG_Z18c_C40 - Install Cinema Screen & MEP	12	04-Oct-19	11-Oct-19	17-Oct-19 A	15-Jan-20	-80	100%	50%															
1142	POD_LG_Z18c_C40 - Low level MEP final fix (temp lighting for FS inspection, perm	12	18-Oct-19	26-Oct-19	18-Oct-19 A	18-Jan-20	-70	100%	50%															
1130	POD_LG_Z18c_C40 - Close Ceilings (gypsum; acoustic panels later)	9	17-Aug-19	21-Aug-19	18-Nov-19 A	11-Jan-20	-118	100%	90%															
1131	POD_LG_Z18c_C40 - Ceiling MEP final fix	6	19-Aug-19	24-Aug-19	06-Jan-20	13-Jan-20	-115	100%	0%															
1130a	POD_LG_Z18c_C40 - Close Ceilings (acoustic panels incl permanent lighting)	6			17-Feb-20*	22-Feb-20		0%	0%															
1134	POD_LG_Z18c_C40 - Steps Plywood	6	07-Sep-19	13-Sep-19	02-Mar-20*	07-Mar-20	-139	100%	0%															
1135	POD_LG_Z18c_C40 - Walls finishes (acoustic panels)	12	19-Sep-19	03-Oct-19	02-Mar-20*	14-Mar-20	-130	100%	0%															
1139	POD_LG_Z18c_C40 - Door & Ironmong	3	12-Oct-19	15-Oct-19	16-Mar-20	18-Mar-20	-124	100%	0%															
1141	POD_LG_Z18c_C40 - Install Carpets	4	16-Oct-19	19-Oct-19	19-Mar-20	23-Mar-20	-124	100%	0%															
1140	POD_LG_Z18c_C40 - Install Curtain	2	12-Oct-19	14-Oct-19	01-Apr-20	03-Apr-20	-139	100%	0%															
1143	POD_LG_Z18c_C40 - Install Seating	7	21-Oct-19	28-Oct-19	27-Jun-20	06-Jul-20	-203	100%	0%															
<b>Moving Image Centre Lobby/Bar &amp; Museum Shop No.2 (B1-GF) - POD_B1_Z09b</b>																								
<b>ABWF &amp; MEP Works (SZ7)</b>																								
8725	POD_B1_Z09b - MEP 1st fix (*2 shifts)	6	24-Aug-19	09-Oct-19	16-Sep-19 A	08-Jan-20	-76	100%	80%															
8728	POD_B1_Z09b - MEP 2nd fix (*2 shifts)	9	19-Oct-19	06-Nov-19	18-Nov-19 A	15-Jan-20	-58	100%	30%															
8727	POD_B1_Z09b - Ceiling Grids Moving Image & Espresso Only (*2 shifts)	3	09-Oct-19	19-Oct-19	06-Jan-20	08-Jan-20	-67	100%	0%															
8730	POD_B1_Z09b - Close ceiling (panels) w/ In-situ Cut-Out of Openings (*2 shifts)	12	06-Nov-19	22-Nov-19	09-Jan-20	23-Jan-20	-51	100%	0%															
8731	POD_B1_Z09b - MEP final fix	9	23-Nov-19	03-Dec-19	20-Jan-20	06-Feb-20	-47	100%	0%															
8726a	POD_B1_Z09b - Install security shutter	6			20-Jan-20	03-Feb-20		0%	0%															
8734	POD_B1_Z09b - Door / Ironmong	6	24-Dec-19	31-Dec-19	24-Jan-20*	07-Feb-20	-25	100%	0%															
8732	POD_B1_Z09b - Wall finishes (subframe, ply + timber) @ Espresso Bar	12	27-Nov-19	10-Dec-19	20-Apr-20*	04-May-20	-114	100%	0%															
8729	POD_B1_Z09b - Floor finishes (resilient layer, ply + timber) @ MIC Lob & Esp. Bar	11	11-Dec-19	23-Dec-19	05-May-20	16-May-20	-114	100%	0%															
8735	POD_B1_Z09b - Install FF&E	12	24-Dec-19	08-Jan-20	01-Jun-20	13-Jun-20	-126	50%	0%															
8733	POD_B1_Z09b - All Other Finishes / Make Good & Clean	12	02-Jan-20	15-Jan-20	08-Jun-20	20-Jun-20	-126	0%	0%															
<b>Lecture Theatre &amp; Adjacent Areas</b>																								
<b>Structural</b>																								
6478	POD_LTH - Escalator canopy Slab Fwork, rebar, cast-in & concrete	7	03-Jul-19	23-Jul-19	08-Nov-19 A	09-Jan-20	-141	100%	90%															
<b>ABWF Works &amp; MEP Works</b>																								
8076	POD_GF_Z04 - All Other Finishes (blackout curtain)/Make Good & Clean	24	12-Dec-19	10-Jan-20	11-Jun-20	10-Jul-20	-145	66.67%	0%															
<b>Lecture Theatre, Lobby &amp; Adjacent Boh Rooms @ G.L. C-D/- 11-14 - POD_GF_Z04</b>																								
8087	POD_GF_Z04_LTH - MEP 1st Fix	3	19-Jul-19	29-Aug-19	12-Aug-19 A	04-Jan-20	-105	100%	92%															
8089	POD_GF_Z04_LTH - MEP 2nd Fix	6	10-Sep-19	02-Oct-19	19-Aug-19 A	09-Jan-20	-82	100%	55%															
8088	POD_GF_Z04_LTH - Dry Wall Frame & Board (one side)	3	11-Jul-19	22-Jul-19	18-Nov-19 A	04-Jan-20	-138	100%	30%															
8090	POD_GF_Z04_LTH - Dry Wall MEP Services/Conduits MEP 1st fix	3	23-Jul-19	05-Aug-19	21-Nov-19 A	06-Jan-20	-127	100%	50%															
8097	POD_GF_Z04_LTH - Ceiling rods	3	11-Jul-19	18-Jul-19	21-Nov-19 A	04-Jan-20	-141	100%	15%															
8098	POD_GF_Z04_LTH - Ceiling grids	4	30-Aug-19	07-Sep-19	25-Nov-19 A	07-Jan-20	-99	100%	2%															
8091	POD_GF_Z04_LTH - Close Dry Wall	9	18-Sep-19	02-Oct-19	04-Jan-20	14-Jan-20	-86	100%	0%															
8099a	POD_GF_Z04_LTH - Guides/Collars for MEP Final Fix positioning at Ceiling	10			04-Jan-20	15-Jan-20		0%	0%															
8093	POD_GF_Z04_LTH - MEP Final Fix	9	15-Oct-19	24-Oct-19	13-Jan-20	22-Jan-20	-75	100%	0%															
8095	POD_GF_Z04_LTH - Door / Ironmong	6	03-Dec-19	09-Dec-19	20-Jan-20*																			























ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020											
										2019			Qtr 1			Qtr 2			Qtr 3		
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
8111	POD_GF_Z09_FoH - Wall finishes (paint)	12	10-Oct-19	23-Oct-19	23-Dec-19 A	18-Jan-20	-73	100%	10%												
9672	POD_GF_Z09_FoH - Install 1 no. SR3 security shutter	6	03-Jun-19	10-Jun-19	06-Jan-20*	11-Jan-20	-179	100%	0%												
8113	POD_GF_Z09_FoH - MEP final fix	12	17-Oct-19	30-Oct-19	13-Jan-20	03-Feb-20	-73	100%	0%												
9668	POD_GF_Z09_FoH - 1 no. SR3 O'S Door & Iron. (Use Temp for FSD)	3	03-Oct-19	05-Oct-19	16-Jan-20	18-Jan-20	-87	100%	0%												
8105	POD_GF_Z09_FoH - Door & Ironmong	6	10-Dec-19	16-Dec-19	20-Jan-20*	03-Feb-20	-33	100%	0%												
8110	POD_GF_Z09_FoH - Floor finishes (resilient layer, ply + timber)	19	18-Nov-19	09-Dec-19	25-May-20*	15-Jun-20	-151	100%	0%												
9668a	POD_GF_Z09_FoH - 1 no. SR3 O'S Door & Iron. (Permanent)	3			01-Jun-20	03-Jun-20		0%	0%												
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B - POD_GF_Z09a</b>																					
8829	POD_GF_Z09/9a_BoH - All Other Finishes / Make Good & Clean	18	10-Dec-19	31-Dec-19	20-Jun-20	13-Jul-20	-155	100%	0%												
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B @ G.L. 7-8 / A-D - POD_GF_Z09a</b>																					
8126	POD_GF_Z09a_BoH - B'wall, plaster, screed, C sealer (rem. works)	3	17-Apr-19	08-May-19	15-Jul-19 A	04-Jan-20	-200	100%	80%												
8124	POD_GF_Z09a_BoH - MEP 2nd fix	9	17-Jun-19	08-Jul-19	16-Dec-19 A	11-Jan-20	-156	100%	30%												
8127	POD_GF_Z09a_BoH - Wall paint undercoat	6	09-Jul-19	15-Jul-19	13-Jan-20	18-Jan-20	-156	100%	0%												
8130	POD_GF_Z09a_BoH - Wall final paint	6	16-Jul-19	22-Jul-19	16-Jan-20	22-Jan-20	-153	100%	0%												
8132	POD_GF_Z09a_BoH - MEP final fix	9	23-Jul-19	01-Aug-19	23-Jan-20	10-Feb-20	-153	100%	0%												
8129	POD_GF_Z09a_BoH - Floor sealer	3	02-Aug-19	05-Aug-19	11-Feb-20	13-Feb-20	-153	100%	0%												
8128	POD_GF_Z09a_BoH - Doors/ 1no. SR3 Doors & Ironmong	6	06-Aug-19	12-Aug-19	14-Feb-20	20-Feb-20	-153	100%	0%												
<b>BoH Surrounding Temporary Exhibition 1A &amp; 1B @ G.L. 2-4/ A-D+ - POD_GF_Z09a</b>																					
8832	POD_GF_Z09a_BoH - Patching-up tie-bolt holes, sealer, screed	3	17-Apr-19	08-May-19	22-Jul-19 A	04-Jan-20	-200	100%	70%												
9735	POD_GF_Z09a_BoH - Dry Wall Frame & Board (one side)	7	09-May-19	25-May-19	25-Jul-19 A	09-Jan-20	-189	100%	80%												
8824	POD_GF_Z09a_BoH - MEP 2nd fix	9	02-Jul-19	22-Jul-19	09-Dec-19 A	13-Jan-20	-145	100%	30%												
8823	POD_GF_Z09a_BoH - Ceiling rods	2	09-May-19	14-May-19	16-Dec-19 A	04-Jan-20	-195	100%	30%												
8833	POD_GF_Z09a_BoH - Ceiling grids	3	27-Jun-19	29-Jun-19	23-Dec-19 A	06-Jan-20	-157	100%	30%												
9736	POD_GF_Z09a_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	15	27-May-19	17-Jun-19	03-Jan-20	20-Jan-20	-180	100%	0%												
9737	POD_GF_Z09a_BoH - Close Dry Wall	11	18-Jun-19	29-Jun-19	15-Jan-20	04-Feb-20	-175	100%	0%												
8830	POD_GF_Z09a_BoH - MEP final fix	9	23-Jul-19	01-Aug-19	24-Jan-20	11-Feb-20	-154	100%	0%												
9669	POD_GF_Z09a_BoH - 1no. SR3 Door & Ironmong @ Corridor	6	05-Aug-19	10-Aug-19	14-Feb-20	20-Feb-20	-154	100%	0%												
8826	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Toilet Lob floor concrete pavers	6	02-Aug-19	08-Aug-19	12-Feb-20	18-Feb-20	-154	100%	0%												
8825	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Lob Ceiling finishes (ply + timber)	8	18-Nov-19	26-Nov-19	16-Jun-20	24-Jun-20	-170	100%	0%												
8828	POD_GF_Z09a_BoH - Staff Ent./ Sec. Rm/ Corr/ Lob Wall finishes (ply + timber)	8	27-Nov-19	05-Dec-19	26-Jun-20	06-Jul-20	-170	100%	0%												
8834	POD_GF_Z09a_BoH - Toilets & Lobby Ceiling Finishes (gypsum + paint, metal)	21	03-Sep-19	09-Sep-19	21-Oct-19 A	03-Feb-20	-114	100%	10%												
8837	POD_GF_Z09a_BoH - Toilets & Lobby flr polished concrete & install protection	36	23-Jul-19	02-Sep-19	14-Jan-20	03-Mar-20	-145	100%	0%												
8835	POD_GF_Z09a_BoH - Toilets wall tiling, sanitary ware & fittings	5	16-Oct-19	21-Oct-19	05-Feb-20	10-Feb-20	-87	100%	0%												
8836	POD_GF_Z09a_BoH - Corr & Storage Wall finishes (paint)	6	23-Jul-19	29-Jul-19	05-Feb-20	11-Feb-20	-157	100%	0%												
8838	POD_GF_Z09a_BoH - Corr & Storage floor sealer	2	02-Aug-19	03-Aug-19	12-Feb-20	13-Feb-20	-154	100%	0%												
8827	POD_GF_Z09a_BoH - Doors & Ironmong	6	06-Dec-19	12-Dec-19	04-Mar-20	10-Mar-20	-67	100%	0%												
<b>Courtyard Hanging Planter</b>																					
6988	POD_GF - Courtyard Irrigation & drainage pipe installation	20	29-Nov-19	18-Jan-20	10-Dec-19 A	24-Jan-20	-5	64.29%	10%												
7040*	POD_GF - Courtyard Mock up installation for silicon pot & S.S cage	16	29-Nov-19	19-Dec-19	27-Dec-19 A	20-Jan-20	-25	100%	10%												
7078	POD_GF - Courtyard installation of pots & cages	24	20-Dec-19	18-Jan-20	04-Jan-20	08-Feb-20	-11	37.5%	0%												
7088	POD_GF - Courtyard soft landscape	24	06-Jan-20	10-Feb-20	11-Jan-20	15-Feb-20	-5	0%	0%												
7090	POD_GF - Courtyard exterior frame	18	20-Jan-20	17-Feb-20	03-Feb-20	22-Feb-20	-5	0%	0%												
<b>Level 1</b>																					
<b>ABWF Works &amp; MEP Works</b>																					
<b>Museum Shop No.1 Offices/Storage &amp; Lift Lobby - POD_L1_Z02</b>																					
8195	POD_L1_Z02 - Patching-up tie bolt holes, wall & ceiling sealer, screed	3	11-Apr-19	02-May-19	20-May-19 A	04-Jan-20	-205	100%	80%												
8200	POD_L1_Z02 - Full height internal glazing	4	08-Jul-19	20-Jul-19	18-Nov-19 A	11-Jan-20	-145	100%	80%												
8197	POD_L1_Z02 - MEP 2nd fix	6	15-Jun-19	06-Jul-19	09-Dec-19 A	11-Jan-20	-157	100%	80%												
8193	POD_L1_Z02 - Door / Ironmong	6	06-Aug-19	12-Aug-19	23-Dec-19 A	08-Jan-20	-123	100%	10%												
8198	POD_L1_Z02 - Dry Wall Frame & Board (one side)	3	03-May-19	06-May-19	03-Jan-20	06-Jan-20	-203	100%	0%												
8201	POD_L1_Z02 - Dry Wall MEP Services/Conduits MEP 1st fix	6	07-May-19	13-May-19	03-Jan-20	09-Jan-20	-200	100%	0%												
8202	POD_L1_Z02 - MEP final fix	9	19-Jul-19	29-Jul-19	09-Jan-20	18-Jan-20	-144	100%	0%												
8203	POD_L1_Z02 - Close Dry Wall	2	14-May-19	15-May-19	10-Jan-20	11-Jan-20	-200	100%	0%												
8199	POD_L1_Z02 - Floor finishes (linoleum, sealer)	6	30-Jul-19	05-Aug-19	20-Jan-20	03-Feb-20	-144	100%	0%												
8211	POD_L1_Z02 - Install FF&E	12	06-Aug-19	19-Aug-19	11-Jul-20	24-Jul-20	-276	100%	0%												
8194	POD_L1_Z02 - All Other Finishes / Make Good & Clean	12	20-Aug-19	02-Sep-19	18-Jul-20	31-Jul-20	-270	100%	0%												
<b>Level 1MF</b>																					
<b>ABWF Works &amp; MEP Works</b>																					
8244	POD_1M_Z01-04 - All Other Finishes / Make Good & Clean	24	14-Dec-19	14-Jan-20	02-Jan-20	06-Feb-20	-14	56.48%	0%												
<b>MEP Plantrooms, Lobbies &amp; Corridors - POD_1M_Z01</b>																					
8206	POD_1M_Z01 - MEP 1st fix (Rem Works)	4	20-Mar-19	13-Jul-19	01-Mar-19 A	06-Jan-20	-146	100%	85%												
8206a	POD_1M_Z01 - MEP 1st fix Connect Duct Work to Pisa Louvres	7			16-Sep-19 A	09-Jan-20		0%	80%												
8214	POD_1M_Z01 - MEP 2nd fix (incl. EQP)	7	02-Aug-19	15-Oct-19	08-Apr-19 A	09-Jan-20	-73	100%	84%												
8283	POD_1M_Z01 - Install Catwalk	4	24-May-19	13-Jul-19	08-Jul-19 A	06-Jan-20	-146	100%	95%												
8212	POD_1M_Z01 - MEP final fix	9	15-Oct-19	26-Nov-19	21-Oct-19 A	13-Jan-20	-40	100%	50%												
8217	POD_1M_Z01 - Wall final paint @ all areas	6	15-Oct-19	05-Nov-19	09-Dec-19 A	11-Jan-20	-57	100%	95%												
<b>MEP Plantrooms, Lobbies &amp; Corridors - POD_1M_Z02</b>																					
8218	POD_1M_Z02 - MEP 1st fix (Rem Works)	4	20-Mar-19	13-Jul-19	01-Mar-19 A	06-Jan-20	-146	100%	88%												
8218a	POD_1M_Z02 - MEP 1st fix Connect Duct Work to Pisa Louvres	7			16-Sep-19 A	09-Jan-20		0%	80%												
8226	POD_1M_Z02 - MEP 2nd fix (incl. EQP)	7	02-Aug-19	15-Oct-19	08-Apr-19 A	09-Jan-20	-73	100%	85%												
8284	POD_1M_Z02 - Install Catwalk	4	24-May-19	13-Jul-19	08-Jul-19 A	06-Jan-20	-146	100%	98%												
8223	POD_1M_Z02 - MEP final fix	9	15-Oct-19	26-Nov-19	21-Oct-19 A	13-Jan-20	-40	100%	50%												
8228	POD_1M_Z02 - Wall final paint @ all areas	6	15-Oct-19	24-Oct-19	10-Dec-19 A	11-Jan-20	-67	100%	95%												
<b>MEP Plantrooms, Lobbies &amp; Corridors - POD_1M_Z03</b>																					
8229	POD_1M_Z03 - MEP 1st fix	4	26-Feb-19	19-Jul-19	02-Apr-19 A	06-Jan-20	-141	100%	81%												
8229a	POD_1M_Z03 - MEP 1st fix Connect Duct Work to Pisa Louvres	7			21-Oct-19 A	09-Jan-20		0%	30%												
8237	POD_1M_Z03 - MEP 2nd fix (incl. EQP)	7	02-Aug-19	15-Oct-19	08-Apr-19 A	09-Jan-20	-73	100%	77%												
8285	POD_1M_Z03 - Install Catwalk	4	30-May-19	19-Jul-19	08-Jul-19 A	06-Jan-20	-141	100%	95%												
8234	POD_1M_Z03 - MEP final fix																				



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										2019			Qtr 1			Qtr 2			Qtr 3			
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
<b>Gallery BoH Internal - POD L2_Z01c</b>																						
8422	POD L2_Z01c_BoH - MEP 1st fix	2	26-Feb-19	09-Apr-19	15-Apr-19 A	03-Jan-20	-223	100%	98%													
8425	POD L2_Z01c_BoH - MEP 2nd fix	3	10-Apr-19	30-Apr-19	20-May-19 A	07-Jan-20	-208	100%	95%													
8431	POD L2_Z01c_BoH - Door / Ironmong	9	07-Aug-19	28-Aug-19	28-Oct-19 A	11-Jan-20	-125	100%	20%													
8429	POD L2_Z01c_BoH - Install Safe grid metal deck	2	16-May-19	18-May-19	12-Nov-19 A	04-Jan-20	-190	100%	95%													
8426	POD L2_Z01c_BoH - Wall finishes (paint)	6	20-Jul-19	26-Jul-19	18-Nov-19 A	10-Jan-20	-139	100%	70%													
8430	POD L2_Z01c_BoH - MEP final fix	6	27-Jul-19	06-Aug-19	09-Dec-19 A	14-Jan-20	-133	100%	95%													
<b>BoH Rooms, Corridors &amp; Lobbies, Non-RF Areas - POD L2_Z01d</b>																						
8552	POD L2_Z01d_BoH - MEP 1st fix	2	17-Jun-19	29-Jul-19	11-Feb-19 A	03-Jan-20	-131	100%	99%													
8553	POD L2_Z01d_BoH - MEP 2nd fix	3	30-Jul-19	19-Aug-19	08-Apr-19 A	06-Jan-20	-115	100%	96%													
8560	POD L2_Z01d_BoH - MEP final fix	9	20-Aug-19	29-Aug-19	23-Sep-19 A	13-Jan-20	-112	100%	50%													
8556	POD L2_Z01d_BoH - Doors/ 3nos. SR3 Doors & Ironmong	6	03-Sep-19	09-Sep-19	25-Nov-19 A	15-Jan-20	-105	100%	5%													
8557	POD L2_Z01d_BoH - Floor sealer	3	30-Aug-19	02-Sep-19	14-Jan-20	16-Jan-20	-112	100%	0%													
<b>Galleries &amp; Gallery Circ, Gallery BOH, BoH Rms, Lobbies &amp; Corridors - POD L2_Z02</b>																						
8517	POD L2_Z02a&b_FoH - All Other Finishes / Make Good & Clean	30	03-Mar-20	28-Apr-20	08-Jun-20	14-Jul-20	-63	0%	0%													
8490	POD L2_Z02_BoH - All Other Finishes / Make Good & Clean	18	11-Oct-19	31-Oct-19	24-Jan-20	21-Feb-20	-88	100%	0%													
8464	POD L2_Z02_FoH Toilet Lob - All Other Finishes / Make Good & Clean	12	28-Nov-19	11-Dec-19	16-May-20	29-May-20	-135	100%	0%													
<b>Skylight Gallery and Gallery Circ. 2 - POD L2_Z02a</b>																						
8472	POD L2_Z02a_FoH - MEP 1st fix	3	21-Mar-19	10-May-19	22-Apr-19 A	04-Jan-20	-198	100%	95%													
8474	POD L2_Z02a_FoH - Dry Wall Frame & Board (one side)	3	01-Jun-19	19-Jun-19	20-May-19 A	04-Jan-20	-165	100%	95%													
8473	POD L2_Z02a_FoH - MEP 2nd fix	6	20-Jun-19	11-Jul-19	19-Jun-19 A	08-Jan-20	-150	100%	75%													
8479	POD L2_Z02a_FoH - Close Dry Wall / Board	3	08-Oct-19	18-Oct-19	14-Oct-19 A	04-Jan-20	-65	100%	95%													
8485a	POD L2_Z02a_FoH - Ceiling finishes (board)	6			11-Dec-19 A	11-Jan-20	0%	80%														
8481	POD L2_Z02a_FoH - Raised floor pedestal	9	27-Jun-19	13-Jul-19	16-Dec-19 A	11-Jan-20	-151	100%	10%													
8482	POD L2_Z02a_FoH - Underfloor MEP 1st Fix	12	12-Jul-19	29-Aug-19	18-Dec-19 A	15-Jan-20	-114	100%	30%													
9638	POD L2_Z02a_FoH - Underfloor MEP 2nd fix	18	30-Aug-19	20-Sep-19	23-Dec-19 A	22-Jan-20	-102	100%	5%													
8483	POD L2_Z02a_FoH - Raised floor panels incl. cut-outs	12	21-Sep-19	05-Oct-19	16-Jan-20	06-Feb-20	-96	100%	0%													
8478	POD L2_Z02a_FoH - MEP final fix	18	21-Sep-19	21-Oct-19	17-Jan-20	14-Feb-20	-91	100%	0%													
8470	POD L2_Z02a_FoH - Door/ 1no. SR3 O'S Door / Ironmong	3	08-Oct-19	10-Oct-19	10-Feb-20	12-Feb-20	-98	100%	0%													
8475a	POD L2_Z02a_FoH - Flr finishes (resilient layer, ply)	18			15-Feb-20	06-Mar-20	0%	0%														
8537	POD L2_Z02a_FoH - Roller Blind System Inst'n	24	17-Jan-20	21-Feb-20	06-Mar-20	02-Apr-20	-35	0%	0%													
8485	POD L2_Z02a_FoH - Ceiling finishes (insulation, acoustic plaster, Timber at Circ/P)	24	06-Dec-19	02-Jan-20	11-May-20	06-Jun-20	-125	95.45%	0%													
8476	POD L2_Z02a_FoH - Wall finishes (Timber @ Circ-passage only)	30	03-Jan-20	07-Feb-20	11-May-20	20-Jun-20	-113	0%	0%													
8475	POD L2_Z02a_FoH - Flr finishes (Timber) + flr grilles	30	08-Feb-20	24-Mar-20	01-Jun-20	07-Jul-20	-86	0%	0%													
<b>Gallery 1-6, Tall Gallery 1&amp;2, Plaza View Gallery and Gallery Circ. - POD L2_Z02b</b>																						
8518	POD L2_Z02b_FoH - MEP 1st fix	3	28-Mar-19	24-May-19	04-Mar-19 A	04-Jan-20	-186	100%	95%													
8519	POD L2_Z02b_FoH - MEP 2nd fix	6	04-Jul-19	07-Aug-19	08-Apr-19 A	08-Jan-20	-127	100%	85%													
8528	POD L2_Z02b_FoH - Underfloor MEP 1st fix	6	25-Jul-19	11-Sep-19	17-Jun-19 A	08-Jan-20	-97	100%	50%													
9639	POD L2_Z02b_FoH - Underfloor MEP 2nd fix	7	12-Sep-19	12-Oct-19	23-Sep-19 A	10-Jan-20	-75	100%	48%													
8525	POD L2_Z02b_FoH - Close Dry Wall / Board	3	31-Oct-19	22-Nov-19	07-Oct-19 A	04-Jan-20	-35	100%	95%													
8524	POD L2_Z02b_FoH - MEP final fix	18	17-Oct-19	13-Nov-19	21-Oct-19 A	22-Jan-20	-58	100%	15%													
8527	POD L2_Z02b_FoH - Raised floor pedestal	3	11-Jul-19	12-Aug-19	18-Nov-19 A	10-Jan-20	-125	100%	95%													
8531a	POD L2_Z02b_FoH - Ceiling finishes (board)	12			09-Dec-19 A	15-Jan-20	0%	60%														
8529	POD L2_Z02b_FoH - Raised floor panels incl. cut-outs	6	14-Oct-19	30-Oct-19	16-Dec-19 A	14-Jan-20	-63	100%	95%													
8521a	POD L2_Z02b_FoH - Flr finishes (resilient layer, plywood base)	18			23-Jan-20	20-Feb-20	0%	0%														
8516	POD L2_Z02b_FoH - 1no. SR3 O'S Door / Ironmong	3	31-Oct-19	02-Nov-19	10-Feb-20	12-Feb-20	-78	100%	0%													
9685	POD L2_Z02b_FoH - Install Roller Blinds	12	09-Jan-20	22-Jan-20	24-Mar-20	07-Apr-20	-57	0%	0%													
8531	POD L2_Z02b_FoH - Ceiling finishes (insulation, acoustic plaster/Timber @ Circ-pa	24	18-Nov-19	08-Jan-20	11-May-20	06-Jun-20	-120	86.05%	0%													
8522	POD L2_Z02b_FoH - Wall finishes (Timber @ Circ-passage only)	36	25-Nov-19	17-Jan-20	11-May-20	20-Jun-20	-124	68.89%	0%													
8521	POD L2_Z02b_FoH - Flr finishes (Timber) + flr grilles	24	09-Jan-20	02-Mar-20	01-Jun-20	29-Jun-20	-99	0%	0%													
<b>Focus Gallery &amp; Gallery Circ. - POD L2_Z02c</b>																						
8540	POD L2_Z02c_FoH - MEP 1st fix	3	22-Mar-19	06-May-19	12-Sep-19 A	06-Jan-20	-204	100%	95%													
8542	POD L2_Z02c_FoH - MEP 2nd fix	6	01-Jun-19	22-Jun-19	16-Sep-19 A	10-Jan-20	-167	100%	90%													
8544	POD L2_Z02c_FoH - MEP final fix	12	19-Jul-19	29-Jul-19	21-Oct-19 A	17-Jan-20	-143	100%	30%													
9749	POD L2_Z02c_FoH - Dry Wall MEP Services/Conduits MEP 1st fix	3	10-Jul-19	16-Jul-19	26-Nov-19 A	04-Jan-20	-143	100%	70%													
8549	POD L2_Z02c_FoH - Ceiling rods @ Gallery Circ.	3	19-Mar-19	22-Mar-19	03-Jan-20*	06-Jan-20	-240	100%	0%													
8550	POD L2_Z02c_FoH - Conc flr curing, polishing & install protection, door/ iron	36	30-Jul-19	09-Sep-19	06-Jan-20*	24-Feb-20	-132	100%	0%													
9750	POD L2_Z02c_FoH - Close Dry Wall	2	17-Jul-19	18-Jul-19	06-Jan-20	07-Jan-20	-143	100%	0%													
8541	POD L2_Z02c_FoH - Ceiling Grids @ Gallery Circ.	2	06-May-19	08-May-19	07-Jan-20	08-Jan-20	-204	100%	0%													
8543	POD L2_Z02c_FoH - Ceiling Metal Cladding @ Gallery Circ	6	24-Jun-19	29-Jun-19	09-Jan-20	15-Jan-20	-165	100%	0%													
8545	POD L2_Z02c_FoH - Walls Sub-Frame & Metal Cladding @ Gallery Circ.	12	10-Sep-19	24-Sep-19	18-Feb-20	02-Mar-20	-126	100%	0%													
<b>Gallery BoH Perimeter - POD L2_Z02d</b>																						
8492	POD L2_Z02d_BoH - MEP 2nd fix	4	08-Aug-19	28-Aug-19	15-Apr-19 A	06-Jan-20	-107	100%	86%													
8488	POD L2_Z02d_BoH - PISA louvres & duct interface work MEP 1st fix	6	11-Jun-19	24-Jun-19	13-May-19 A	08-Jan-20	-164	100%	76%													
8494	POD L2_Z02d_BoH - Wall finishes (paint incl. door/ iron)	6	29-Aug-19	11-Sep-19	15-Nov-19 A	09-Jan-20	-98	100%	50%													
8500	POD L2_Z02d_BoH - Install Safe grid metal deck	6	05-Oct-19	14-Oct-19	18-Nov-19 A	11-Jan-20	-75	100%	95%													
8499	POD L2_Z02d_BoH - Underfloor MEP 1st fix	3	05-Sep-19	26-Sep-19	09-Dec-19 A	04-Jan-20	-82	100%	87%													
9640	POD L2_Z02d_BoH - Underfloor MEP 2nd Fix	5	27-Sep-19	04-Oct-19	16-Dec-19 A	08-Jan-20	-79	100%	80%													
8496	POD L2_Z02d_BoH - MEP final fix	9	15-Oct-19	24-Oct-19	17-Dec-19 A	15-Jan-20	-69	100%	50%													
<b>Gallery BoH Internal - POD L2_Z02e</b>																						
8505	POD L2_Z02e_BoH - MEP 1st fix	2	21-Mar-19	03-May-19	10-Apr-19 A	03-Jan-20	-203	100%	97%													
8506	POD L2_Z02e_BoH - MEP 2nd fix	4	28-Jun-19	19-Jul-19	05-Jun-19 A	07-Jan-20	-142	100%	85%													
8507	POD L2_Z02e_BoH - Dry Wall Frame & Board (one side)	2	01-Jun-19	13-Jun-19	10-Jun-19 A	03-Jan-20	-169	100%	95%													
8513	POD L2_Z02e_BoH - Underfloor MEP 1st & 2nd fix	3	27-Jul-19	16-Aug-19	22-Jul-19 A	04-Jan-20	-116	100%	90%													



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020											
										2019	Qtr 1			Qtr 2			Qtr 3				
											Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
8627	POD_L2_Z03b_BoH - Install Safe grid metal deck	6	13-Jul-19	16-Jul-19	17-Dec-19 A	08-Jan-20	-146	100%	50%												
8623	POD_L2_Z03b_BoH - MEP final fix	9	19-Jul-19	29-Jul-19	19-Dec-19 A	18-Jan-20	-144	100%	50%												
8616	POD_L2_Z03b_BoH - Door / Ironmong	6	30-Jul-19	05-Aug-19	23-Dec-19 A	18-Jan-20	-138	100%	10%												
8621	POD_L2_Z03b_BoH - Wall finishes (paint)	6	25-Jun-19	02-Jul-19	09-Jan-20	15-Jan-20	-164	100%	0%												
9689	POD_L2_Z03b_BoH - 1no. SRE Door / Ironmong in bet. Gal. BoH & Aud.	2	30-Jul-19	31-Jul-19	20-Jan-20	21-Jan-20	-144	100%	0%												
<b>BoH Rooms, Corridors &amp; Lobbies - Non-RF Areas - POD_L2_Z03c</b>																					
8605	POD_L2_Z03c_BoH - MEP 1st fix	2	21-Mar-19	17-May-19	23-Apr-19 A	03-Jan-20	-191	100%	96%												
8606	POD_L2_Z03c_BoH - MEP 2nd fix	5	20-May-19	17-Jun-19	23-Jul-19 A	07-Jan-20	-169	100%	86%												
8613	POD_L2_Z03c_BoH - MEP final fix	12	19-Jul-19	01-Aug-19	16-Dec-19 A	21-Jan-20	-143	100%	50%												
8608	POD_L2_Z03c_BoH - Wall paint	9	18-Jun-19	27-Jun-19	04-Jan-20	14-Jan-20	-166	100%	0%												
8611	POD_L2_Z03c_BoH - Wall final paint	9	28-Jun-19	09-Jul-19	08-Jan-20	17-Jan-20	-160	100%	0%												
8610	POD_L2_Z03c_BoH - Floor sealer	3	02-Aug-19	05-Aug-19	22-Jan-20	24-Jan-20	-143	100%	0%												
8609	POD_L2_Z03c_BoH - Doors/4nos. SR3 Doors & Ironmong	6	06-Aug-19	12-Aug-19	03-Feb-20	08-Feb-20	-143	100%	0%												
<b>Galleries &amp; Gallery Circ, Gallery BOH, BoH Rms, Lobbies &amp; Corridors, Toilets - POD_L2_Z04</b>																					
8651	POD_L2_Z04b/c/d_BoH - All Other Finishes / Make Good & Clean	18	17-Sep-19	09-Oct-19	23-Jan-20	20-Feb-20	-106	100%	0%												
8706	POD_L2_Z04e_BoH - All Other Finishes / Make Good & Clean	12	28-Nov-19	11-Dec-19	30-May-20	12-Jun-20	-147	100%	0%												
8630	POD_L2_Z04a_FoH - All Other Finishes / Make Good & Clean	30	26-Mar-20	22-May-20	19-Jun-20	25-Jul-20	-53	0%	0%												
<b>Gallery 7 to 10, Study Area, Other Galleries and Gallery Circ. - POD_L2_Z04a</b>																					
8631	POD_L2_Z04a_FoH - MEP 1st Fix	3	20-May-19	09-Jul-19	05-Mar-19 A	04-Jan-20	-149	100%	96%												
8632	POD_L2_Z04a_FoH - MEP 2nd Fix (*2 shifts)	6	23-Jul-19	13-Aug-19	16-May-19 A	10-Jan-20	-124	100%	82%												
8645	POD_L2_Z04a_FoH - Ceiling grids (*2 shifts)	4	09-Jul-19	23-Jul-19	15-Jul-19 A	07-Jan-20	-139	100%	65%												
8641	POD_L2_Z04a_FoH - Underfloor MEP 1st Fix (*2 shifts)	9	16-Aug-19	23-Sep-19	05-Sep-19 A	14-Jan-20	-93	100%	60%												
9642	POD_L2_Z04a_FoH - Underfloor MEP 2nd Fix	12	24-Sep-19	23-Oct-19	14-Oct-19 A	17-Jan-20	-72	100%	50%												
8644a	POD_L2_Z04a_FoH - Ceiling finishes (board)	12			17-Oct-19 A	17-Jan-20	0%	75%													
8638	POD_L2_Z04a_FoH - Close Dry Wall / Board	15	18-Dec-19	14-Jan-20	06-Nov-19 A	24-Jan-20	-9	50%	95%												
8640	POD_L2_Z04a_FoH - Raised floor pedestal (*2 shifts)	6	02-Aug-19	30-Aug-19	11-Nov-19 A	10-Jan-20	-109	100%	55%												
8642	POD_L2_Z04a_FoH - Raised floor panels incl. cut-outs	12	14-Oct-19	30-Oct-19	18-Nov-19 A	21-Jan-20	-69	100%	55%												
8629	POD_L2_Z04a_FoH - Door / Ironmong	6	16-Apr-20	22-Apr-20	27-Nov-19 A	10-Jan-20	80	0%	5%												
8637	POD_L2_Z04a_FoH - MEP Final Fix	18	24-Oct-19	20-Nov-19	16-Dec-19 A	05-Feb-20	-57	100%	20%												
8634a	POD_L2_Z04a_FoH - Floor finishes (resilient layer, ply base)	14			06-Feb-20	21-Feb-20	0%	0%													
9688	POD_L2_Z04a_FoH - 3nos. SR3 O'S Doors / Ironmong	6	24-Oct-19	30-Oct-19	10-Feb-20	15-Feb-20	-84	100%	0%												
9687	POD_L2_Z04a_FoH - Install Roller Blinds	12	17-Feb-20	29-Feb-20	31-Mar-20	14-Apr-20	-37	0%	0%												
8644	POD_L2_Z04a_FoH - Ceiling finishes (insulation, ac. plaster, fabric, Timber at Circ/F	28	12-Dec-19	06-Feb-20	25-May-20	26-Jun-20	-118	40%	0%												
8635	POD_L2_Z04a_FoH - Wall finishes (paint/Timber @ Circ-passage only)	30	03-Feb-20	31-Mar-20	02-Jun-20	08-Jul-20	-81	0%	0%												
8634	POD_L2_Z04a_FoH - Floor finishes (timber) + flr grilles	24	05-Mar-20	15-Apr-20	19-Jun-20	18-Jul-20	-78	0%	0%												
8647	POD_L2_Z04a_FoH - Facade timber mullion capping	13	16-Apr-20	30-Apr-20	04-Jul-20	18-Jul-20	-65	0%	0%												
<b>Gallery BoH Perimeter - POD_L2_Z04b</b>																					
8652	POD_L2_Z04b_BoH West - MEP 1st Fix	2	18-Jun-19	30-Jul-19	09-May-19 A	03-Jan-20	-130	100%	99%												
8653	POD_L2_Z04b_BoH West - MEP 2nd Fix	5	31-Jul-19	20-Aug-19	20-May-19 A	07-Jan-20	-115	100%	81%												
8660	POD_L2_Z04b_BoH West - Underfloor MEP 1st & 2nd Fix	3	28-Aug-19	10-Sep-19	15-Jul-19 A	04-Jan-20	-95	100%	90%												
8655	POD_L2_Z04b_BoH West - Wall finishes (paint incl. door & iron)	9	21-Aug-19	03-Sep-19	16-Dec-19 A	11-Jan-20	-107	100%	10%												
8661	POD_L2_Z04b_BoH West - Install Safe grid metal deck	4	11-Sep-19	16-Sep-19	18-Dec-19 A	07-Jan-20	-93	100%	50%												
8657	POD_L2_Z04b_BoH West - MEP Final Fix	9	17-Sep-19	26-Sep-19	20-Dec-19 A	18-Jan-20	-94	100%	50%												
9627	POD_L2_Z04b_BoH South - MEP 1st Fix	3	18-Apr-19	30-May-19	08-Apr-19 A	04-Jan-20	-181	100%	88%												
9630	POD_L2_Z04b_BoH South - MEP 2nd Fix	6	31-May-19	21-Jun-19	22-Jul-19 A	08-Jan-20	-166	100%	80%												
9634	POD_L2_Z04b_BoH South - Underfloor MEP 1st & 2nd Fix	7	29-Jun-19	13-Jul-19	16-Sep-19 A	10-Jan-20	-150	100%	70%												
9633	POD_L2_Z04b_BoH South - Safe grid metal deck 1st fix	6	22-Jun-19	28-Jun-19	21-Oct-19 A	08-Jan-20	-160	100%	80%												
9635	POD_L2_Z04b_BoH South - Install Safe grid metal deck	9	15-Jul-19	18-Jul-19	16-Dec-19 A	14-Jan-20	-149	100%	50%												
9632	POD_L2_Z04b_BoH South - Wall finishes (paint incl. door & iron)	12	20-Jul-19	02-Aug-19	06-Jan-20	18-Jan-20	-140	100%	0%												
9636	POD_L2_Z04b_BoH South - MEP Final Fix	9	03-Aug-19	13-Aug-19	15-Jan-20	24-Jan-20	-136	100%	0%												
<b>Gallery BoH Internal - POD_L2_Z04c</b>																					
8666	POD_L2_Z04c_BoH - MEP 1st Fix	3	23-Mar-19	06-May-19	07-Mar-19 A	04-Jan-20	-202	100%	91%												
8667	POD_L2_Z04c_BoH - MEP 2nd Fix	6	07-May-19	27-May-19	13-May-19 A	08-Jan-20	-187	100%	82%												
8674	POD_L2_Z04c_BoH - Underfloor MEP 1st & 2nd Fix	6	04-Jun-19	25-Jun-19	20-May-19 A	11-Jan-20	-166	100%	89%												
8673	POD_L2_Z04c_BoH - Safe grid metal deck 1st fix	3	28-May-19	12-Jun-19	21-Oct-19 A	08-Jan-20	-174	100%	90%												
8664	POD_L2_Z04c_BoH - Door / Ironmong	7	09-Aug-19	22-Aug-19	25-Nov-19 A	09-Jan-20	-115	100%	5%												
8675	POD_L2_Z04c_BoH - Install Safe grid metal deck	8	24-Jun-19	03-Jul-19	16-Dec-19 A	15-Jan-20	-163	100%	90%												
8671	POD_L2_Z04c_BoH - MEP Final Fix	12	30-Jul-19	08-Aug-19	20-Dec-19 A	22-Jan-20	-138	100%	30%												
8669	POD_L2_Z04c_BoH - Wall finishes (paint)	15	09-Jul-19	29-Jul-19	03-Jan-20*	20-Jan-20	-145	100%	0%												
<b>BoH Rooms, Corridors &amp; Lobbies - Non-RF Areas - POD_L2_Z04d</b>																					
8747	POD_L2_Z04d_BoH - MEP 1st fix	3	26-Mar-19	08-May-19	05-Mar-19 A	04-Jan-20	-200	100%	91%												
8748	POD_L2_Z04d_BoH - MEP 2nd fix	6	09-May-19	29-May-19	13-May-19 A	08-Jan-20	-185	100%	81%												
8750	POD_L2_Z04d_BoH - Wall paint	6	30-May-19	10-Jun-19	18-Nov-19 A	11-Jan-20	-179	100%	50%												
8755	POD_L2_Z04d_BoH - MEP final fix	9	19-Jul-19	29-Jul-19	19-Dec-19 A	18-Jan-20	-144	100%	30%												
8753	POD_L2_Z04d_BoH - Wall final paint	9	11-Jun-19	20-Jun-19	06-Jan-20	15-Jan-20	-173	100%	0%												
8752	POD_L2_Z04d_BoH - Floor sealer	3	30-Jul-19	01-Aug-19	20-Jan-20	22-Jan-20	-144	100%	0%												
8751	POD_L2_Z04d_BoH - Doors/7nos. SR3 Doors & Ironmong	12	02-Aug-19	15-Aug-19	23-Jan-20	13-Feb-20	-144	100%	0%												
<b>FoH Toilets - Public - POD_L2_Z04e</b>																					
<b>Toilet Block</b>																					
8683	POD_L2_Z04e_FoH Toilet - MEP 2nd Fix	3	26-Jun-19	10-Jul-19	08-Apr-19 A	04-Jan-20	-148	100%	96%												
8685	POD_L2_Z04e_FoH Toilet - MEP Final Fix	6	27-Jul-19	02-Aug-19	18-Nov-19 A	09-Jan-20	-132	100%	50%												
8692	POD_L2_Z04e_FoH Toilet - Ceiling Finishes Final Coat	3	20-Jul-19	26-Jul-19	18-Dec-19 A	07-Jan-20	-136	100%	70%												
8689	POD_L2_Z04e_FoH Toilet - Cubicle partitions & sanitary ware & fittings	36	28-Sep-19	14-Oct-19	23-Dec-19 A	10-Mar-20	-118	100%	30%												
8684	POD_L2_Z04e_FoH Toilet - Door Frame	2	06-May-19	07-May-19	06-Jan-20*	07-Jan-20	-203	100%	0%												
8708	POD_L2_Z04e_FoH Toilet - Conc flr curing, polishing & install protection	36	03-Aug-19	13-Sep-19	06-Jan-20	24-Feb-20	-128	100%	0%												
8678	POD_L2_Z04e_FoH Toilet - Door / Ironmong	6	15-Oct-19	21-Oct-19	11-Mar-20	17-Mar-20	-118	100%	0%												
<b>Toilet Lobby/Corridor</b>																					
8700	POD_L2_Z04e_FoH Toilet Lob - MEP 2nd fix	3	15-Apr-19	20-Apr-19	15-Apr-19 A	08-Jan-20	-217	100%	96%												



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020										
										Qtr 1			Qtr 2			Qtr 3				
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
9755	POD_L3_Z01d_FoH - Dry Wall Frame	4	16-Apr-19	19-Apr-19	02-Jan-20*	06-Jan-20	-216	100%	0%											
8327	POD_L3_Z01d_FoH - Ceiling rods	4	16-Apr-19	19-Apr-19	04-Jan-20	08-Jan-20	-218	100%	0%											
9757	POD_L3_Z01d_FoH - Close Dry Wall	2	13-May-19	14-May-19	14-Jan-20	15-Jan-20	-204	100%	0%											
9758	POD_L3_Z01d_FoH - Wall finishes (paint on dry wall)	4	15-May-19	18-May-19	16-Jan-20	20-Jan-20	-204	100%	0%											
8333	POD_L3_Z01d_FoH - MEP final fix	9	18-Oct-19	29-Oct-19	24-Jan-20	11-Feb-20	-82	100%	0%											
8330	POD_L3_Z01d_FoH - Doors & Ironmong	2	13-Nov-19	15-Nov-19	03-Feb-20*	04-Feb-20	-61	100%	0%											
8329	POD_L3_Z01d_FoH - Ceiling finishes (bamboo slats)	13	02-Oct-19	18-Oct-19	20-Apr-20	05-May-20	-161	100%	0%											
8331	POD_L3_Z01d_FoH - Floor finishes (concrete pavers)	13	29-Oct-19	13-Nov-19	06-May-20	20-May-20	-152	100%	0%											
<b>FoH Toilets - Cafe Toilets @ Tower Footprint - POD_L3_Z01d</b>																				
<b>Toilet Block</b>																				
8267	POD_L3_Z01d_FoH Toilet - MEP 1st fix Ceiling	9	13-May-19	05-Jun-19	08-Aug-19 A	11-Jan-20	-182	100%	21%											
8282	POD_L3_Z01d_FoH Toilet - Conc fir curing, polishing & install protection	18	26-Jul-19	05-Sep-19	25-Oct-19 A	22-Jan-20	-114	100%	90%											
8265	POD_L3_Z01d_FoH Toilet - MEP 1st fix Block Wall	6	04-May-19	13-May-19	04-Nov-19 A	08-Jan-20	-199	100%	20%											
8269	POD_L3_Z01d_FoH Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	5	11-May-19	24-May-19	09-Dec-19 A	14-Jan-20	-194	100%	20%											
8257	POD_L3_Z01d_FoH Toilet - MEP 2nd fix	14	21-Jun-19	05-Jul-19	16-Dec-19 A	18-Jan-20	-164	100%	19%											
8268	POD_L3_Z01d_FoH Toilet - Dry Wall Frame & Board (one side)	5	08-May-19	13-May-19	06-Jan-20	10-Jan-20	-201	100%	0%											
8256	POD_L3_Z01d_FoH Toilet - Seal Wall Opening	3	14-May-19	16-May-19	09-Jan-20	11-Jan-20	-199	100%	0%											
8254	POD_L3_Z01d_FoH Toilet - Ceiling Rods & Grids	6	14-Jun-19	20-Jun-19	13-Jan-20	18-Jan-20	-176	100%	0%											
8258	POD_L3_Z01d_FoH Toilet - Door Frame	2	06-Jun-19	08-Jun-19	13-Jan-20	14-Jan-20	-182	100%	0%											
8270	POD_L3_Z01d_FoH Toilet - Close Dry Wall	3	25-May-19	28-May-19	15-Jan-20	17-Jan-20	-194	100%	0%											
8251	POD_L3_Z01d_FoH Toilet - Wall Plastering (internal & external)	4	10-Jun-19	13-Jun-19	18-Jan-20	22-Jan-20	-185	100%	0%											
8255	POD_L3_Z01d_FoH Toilet - Close ceiling (board) incl. Cut-Outs	7	06-Jul-19	13-Jul-19	20-Jan-20	04-Feb-20	-164	100%	0%											
8262	POD_L3_Z01d_FoH Toilet - Wall Tile Finishes	8	06-Sep-19	16-Sep-19	23-Jan-20	08-Feb-20	-114	100%	0%											
8266	POD_L3_Z01d_FoH Toilet - Ceiling finishes final coat	3	15-Jul-19	17-Jul-19	05-Feb-20	07-Feb-20	-164	100%	0%											
8259	POD_L3_Z01d_FoH Toilet - MEP final fix	6	19-Jul-19	25-Jul-19	08-Feb-20	14-Feb-20	-163	100%	0%											
8263	POD_L3_Z01d_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	17-Sep-19	23-Sep-19	04-Mar-20	10-Mar-20	-134	100%	0%											
8252	POD_L3_Z01d_FoH Toilet - Door / Ironmong	2	24-Sep-19	25-Sep-19	11-Mar-20	12-Mar-20	-134	100%	0%											
<b>Toilet Lobby/ Vestibule</b>																				
8279	POD_L3_Z01d_FoH Toilet Lob - MEP 1st fix	9	05-Aug-19	17-Aug-19	02-Dec-19 A	11-Jan-20	-121	100%	21%											
8274	POD_L3_Z01d_FoH Toilet Lob - MEP 2nd fix	6	02-Sep-19	09-Sep-19	16-Dec-19 A	14-Jan-20	-105	100%	19%											
8278	POD_L3_Z01d_FoH Toilet Lob - Ceiling rods	3	01-Aug-19	03-Aug-19	07-Jan-20	09-Jan-20	-131	100%	0%											
8273	POD_L3_Z01d_FoH Toilet Lob - Ceiling grids	2	19-Aug-19	20-Aug-19	10-Jan-20	11-Jan-20	-119	100%	0%											
8275a	POD_L3_Z01d_FoH Toilet Lob - Ceiling finishes (MR Gypsum/ Plywood backing for	3			14-Jan-20	14-Jan-20	0	0%	0%											
8276	POD_L3_Z01d_FoH Toilet Lob - MEP final fix	6	27-Sep-19	05-Oct-19	17-Jan-20	23-Jan-20	-92	100%	0%											
8281a	POD_L3_Z01d_FoH Toilet Lob - Wall finishes (Plywood backing)	4			17-Jan-20	21-Jan-20	0	0%	0%											
8277	POD_L3_Z01d_FoH Toilet Lob - Floor concrete pavers	3	09-Sep-19	12-Sep-19	19-Feb-20	21-Feb-20	-128	100%	0%											
8275	POD_L3_Z01d_FoH Toilet Lob - Ceiling finishes (Timber)	3	12-Sep-19	20-Sep-19	20-Apr-20	22-Apr-20	-173	100%	0%											
8281	POD_L3_Z01d_FoH Toilet Lob - Wall finishes (Timber)	4	20-Sep-19	27-Sep-19	23-Apr-20	27-Apr-20	-171	100%	0%											
<b>Roof Terrace Toilets, Lobbies, Storage &amp; Lift Vestibule @ G.L. 10+13/ B+D - POD_L3_Z02</b>																				
8289	POD_L3_Z02 - All Other Finishes / Make Good & Clean	12	28-Sep-19	14-Oct-19	18-Mar-20	31-Mar-20	-136	100%	0%											
<b>FoH Toilets - Roof Terrace Toilets - POD_L3_Z02</b>																				
<b>Toilet Block</b>																				
8303	POD_L3_Z02_FoH Toilet - MEP 1st fix Ceiling	7	26-Apr-19	21-May-19	03-Jun-19 A	09-Jan-20	-193	100%	4%											
8301	POD_L3_Z02_FoH Toilet - MEP 1st fix Block Wall	7	19-Apr-19	26-Apr-19	12-Aug-19 A	09-Jan-20	-213	100%	2%											
8304	POD_L3_Z02_FoH Toilet - Dry Wall Frame & Board (one side)	12	23-Apr-19	29-Apr-19	20-Aug-19 A	15-Jan-20	-216	100%	80%											
8305	POD_L3_Z02_FoH Toilet - Dry Wall MEP Services/Conduits (MEP 1st fix)	16	26-Apr-19	10-May-19	26-Aug-19 A	20-Jan-20	-211	100%	5%											
8297	POD_L3_Z02_FoH Toilet - W/proof/Testing & Protective Scream	7	15-Apr-19	22-Apr-19	06-Jan-20	13-Jan-20	-220	100%	0%											
8292	POD_L3_Z02_FoH Toilet - Seal Wall Opening	3	27-Apr-19	30-Apr-19	08-Jan-20	10-Jan-20	-211	100%	0%											
8290	POD_L3_Z02_FoH Toilet - Ceiling Rods & Grids	3	29-May-19	31-May-19	09-Jan-20	11-Jan-20	-186	100%	0%											
8293	POD_L3_Z02_FoH Toilet - MEP 2nd fix	9	01-Jun-19	15-Jun-19	09-Jan-20	18-Jan-20	-180	100%	0%											
8296	POD_L3_Z02_FoH Toilet - Floor Scream	3	23-Apr-19	25-Apr-19	14-Jan-20	16-Jan-20	-220	100%	0%											
8294	POD_L3_Z02_FoH Toilet - Door Frame	2	22-May-19	23-May-19	17-Jan-20	18-Jan-20	-199	100%	0%											
8291	POD_L3_Z02_FoH Toilet - Close ceiling (board) incl. Cut-Outs	4	17-Jun-19	20-Jun-19	20-Jan-20	23-Jan-20	-180	100%	0%											
8306	POD_L3_Z02_FoH Toilet - Close Dry Wall	4	11-May-19	15-May-19	21-Jan-20	24-Jan-20	-211	100%	0%											
8287	POD_L3_Z02_FoH Toilet - Wall Plastering (internal & external)	4	24-May-19	28-May-19	23-Jan-20	04-Feb-20	-202	100%	0%											
8295	POD_L3_Z02_FoH Toilet - MEP final fix	6	19-Jul-19	25-Jul-19	24-Jan-20	07-Feb-20	-157	100%	0%											
8302	POD_L3_Z02_FoH Toilet - Ceiling finishes final coat	3	21-Jun-19	24-Jun-19	24-Jan-20	04-Feb-20	-180	100%	0%											
8318	POD_L3_Z02_FoH Toilet - Conc fir curing, polishing & install protection	36	26-Jul-19	05-Sep-19	03-Feb-20	14-Mar-20	-152	100%	0%											
8298	POD_L3_Z02_FoH Toilet - Wall Tile Finishes	8	17-Sep-19	25-Sep-19	09-Mar-20	17-Mar-20	-138	100%	0%											
8299	POD_L3_Z02_FoH Toilet - Cubicle partitions & sanitary ware & fittings	6	26-Sep-19	03-Oct-19	13-Mar-20	19-Mar-20	-134	100%	0%											
8288	POD_L3_Z02_FoH Toilet - Door / Ironmong.	2	04-Oct-19	05-Oct-19	20-Mar-20	21-Mar-20	-134	100%	0%											
<b>Toilet Lobby</b>																				
9704	POD_L3_Z02_FoH Toilet Lob - MEP 1st fix	8	12-Jun-19	25-Jun-19	10-Jun-19 A	10-Jan-20	-165	100%	9%											
9706	POD_L3_Z02_FoH Toilet Lob - MEP 2nd fix	12	26-Jun-19	10-Jul-19	04-Jan-20	17-Jan-20	-159	100%	0%											
9703	POD_L3_Z02_FoH Toilet Lob - Ceiling & Wall sealer	2	10-Jun-19	11-Jun-19	06-Jan-20*	07-Jan-20	-174	100%	0%											
9709	POD_L3_Z02_FoH Toilet Lob - MEP final fix MEP Final fix	6	19-Jul-19	25-Jul-19	18-Jan-20	24-Jan-20	-152	100%	0%											
9702	POD_L3_Z02_FoH Toilet Lob - Floor concrete pavers	3	03-Sep-19	05-Sep-19	12-Mar-20	14-Mar-20	-152	100%	0%											
9705	POD_L3_Z02_FoH Toilet Lob - Door / Ironmong.	2	06-Sep-19	07-Sep-19	16-Mar-20	17-Mar-20	-152	100%	0%											
<b>BoH - Storage - POD_L3_Z02</b>																				
8342	POD_L3_Z02_BoH - Patch-up tie bolt holes, screed, C_sealer	8	08-Apr-19	20-Apr-19	03-Jun-19 A	10-Jan-20	-219	100%	20%											
8344	POD_L3_Z02_BoH - MEP 1st fix	12	22-Apr-19	03-Jun-19	10-Jun-19 A	15-Jan-20	-187	100%	29%											
8345	POD_L3_Z02_BoH - MEP 2nd fix	16	04-Jun-19	25-Jun-19	17-Jun-19 A	20-Jan-20	-173	100%	10%											
8346	POD_L3_Z02_BoH - Wall paint undercoat	12	26-Jun-19	10-Jul-19	14-Jan-20	04-Feb-20	-167	100%	0%											
8347	POD_L3_Z02_BoH - Wall final paint	6	11-Jul-19	17-Jul-19	05-Feb-20	11-Feb-20	-167	100%	0%											
8348	POD_L3_Z02_BoH - MEP final fix MEP Final fix	9	19-Jul-19	29-Jul-19	12-Feb-20	21-Feb-20	-166	100%	0%											
8349	POD_L3_Z02_BoH - Floor sealer	2	30-Jul-19	31-Jul-19	22-Feb-20	24-Feb-20	-166	100%	0%											
8350	POD_L3_Z02_BoH - Doors & Ironmong	2	01-Aug-19	02-Aug-19	25-Feb-20	26-Feb-20	-166	100%	0%											
<b>Lift (LT22) Vestibule @ G.L.10+ A+B+</b>																				
9713	POD_L3_Z02_Lift Vest. - MEP 1st fix	12	17-Aug-19	23-Aug-19	15-Jul-19 A	15-Jan-20	-119													



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020									
										Qtr 1			Qtr 2			Qtr 3			
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
9874	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install 1st Fix (shared access with MEP)	9	08-May-19	06-Jun-19	15-Jun-19 A	11-Jan-20	-181	100%	83%										
8558	POD_GF_Z07_P2 - Pisa (all P2 areas) - Install Ceramic Tube Wall (ACC 26Nov)	12	29-Jun-19	10-Aug-19	16-Sep-19 A	15-Jan-20	-130	100%	55%										
8945	POD_GF_Z07_P2 - GM/8-13 Pisa - Install Glass Wall (ACC 26Nov) OctUPD: EF 6D	12	08-Jun-19	20-Jul-19	11-Nov-19 A	15-Jan-20	-148	100%	62%										
10109	POD_GF_Z07_P2 - AM/1-7 Pisa - Install Windows (3 off) (ACC 4Nov) OctUPD: EF 5	18			03-Jan-20	23-Jan-20		0%	0%										
10111	POD_GF_Z07_P2 - BG/8-13 Pisa - Install Glass Wall (LC area) (ACC 18Nov) OctUP	18			03-Jan-20	23-Jan-20		0%	0%										
<b>Priority 3 - Decorative Walls &amp; Dry Fix</b>																			
<b>Installation</b>																			
9875	POD_GF_Z07_P3 - Pisa - Install 1st Fix (shared access with MEP)	7	08-Jun-19	06-Jul-19	15-Jun-19 A	09-Jan-20	-155	100%	87.5%										
9884	POD_GF_Z07_P3 - AM/1-7 Pisa - Ext. & Decorative Walls (ACC 5Dec) OctUPD: EF	12	30-Apr-19	13-Jun-19	01-Aug-19 A	16-Jan-20	-181	100%	83.2%										
9885	POD_GF_Z07_P3 - GM/8-13 Pisa - Ext. & Decorative Walls (ACC 2Dec) OctUPD: E	12	23-Apr-19	05-Jun-19	23-Sep-19 A	16-Jan-20	-187	100%	59%										
9886	POD_GF_Z07_P3 - BG/8-13 Pisa - Ext. & Decorative Walls (ACC 30Nov) OctUP: EI	9	18-May-19	29-Jun-19	04-Nov-19 A	15-Jan-20	-165	100%	74%										
<b>2/F - Glass With Pre-cast Concrete Mullions</b>																			
8603	POD_L2_Z04a_GW - BF/11-13 Pisa Install East GW	6	03-Jul-19	30-Jul-19	01-Oct-19 A	08-Jan-20	-134	100%	75%										
8953	POD_L2_Z04a_GW - BF/11-13 Pisa Install West GW	6	14-Aug-19	10-Sep-19	01-Oct-19 A	08-Jan-20	-98	100%	75%										
<b>L3 Skylight, Strip Glazing, Storefront, Garden Gallery</b>																			
8102	POD_EWS_L3 - M+ Install Tower Shop Front Glazing	12	31-May-19	02-Sep-19	27-May-19 A	16-Jan-20	-113	100%	83%										
<b>Corrugated Aluminium Perf. Panels &amp; Pre-Cast Concrete Tubes</b>																			
1228	POD_GF - Set Out & Install Frames/Panels/Louvers - Type A Angle 186-End	12	16-Aug-19	04-Nov-19	27-Jul-19 A	15-Jan-20	-60	100%	71.99%										
1229	POD_GF - Set Out & Install Frames/Panels/Louvers - Type B Cway GL_A-G	28	28-Jun-19	13-Sep-19	09-Sep-19 A	11-Feb-20	-117	100%	71%										
1225	POD_GF - Set Out & Install Frames/Panels/Louvers - Type C GL_1-H	28	10-Apr-19	22-May-19	21-Oct-19 A	11-Feb-20	-213	100%	62.98%										
1226	POD_GF - Set Out & Install Frames/Panels/Louvers - Type C G_LH-F	28	23-May-19	27-Jun-19	21-Oct-19 A	11-Feb-20	-183	100%	63%										
1230	POD_GF - Set Out & Install Frames/Panels/Louvers - Type B Cway GL_HM	18	16-Sep-19	05-Nov-19	21-Oct-19 A	05-Feb-20	-70	100%	49%										
1227	POD_GF - Set Out & Install Frames/Panels/Louvers - Type A/CGL_F'angle 186	24	19-Jul-19	05-Sep-19	18-Nov-19 A	08-Feb-20	-122	100%	65%										
9780	POD_GF - Install Pre-Cast Concrete Tube at West (A+/3-7)	24	23-Aug-19	20-Sep-19	06-Jan-20*	10-Feb-20	-111	100%	0%										
1231	POD_GF - Set Out & Install Frames/Panels/Louvers - Type A CwayGL_A-End	36	06-Nov-19	24-Dec-19	08-Jan-20	26-Feb-20	-46	100%	0%										
<b>Vertical Transportation</b>																			
<b>Lifts</b>																			
9333	POD_LT07 - Passenger Lift (B2 - 3F) - Lift Pit/Shaft/Machine Room MEP 1st, 2nd & Fin	16	11-Apr-19	21-Jun-19	23-Jul-19 A	20-Jan-20	-176	100%	75%										
9341	POD_LT08 - Passenger Lift (B2 - 2F) - Lift Pit/Shaft/Machine Room MEP 1st, 2nd & Fin	16	11-Apr-19	21-Jun-19	23-Jul-19 A	20-Jan-20	-176	100%	75%										
9323	POD_LT19 - Passenger/disabled Lift (B1 - GF) - Lift Pit/Shaft/Machine Room MEP	8	27-May-19	06-Aug-19	16-Aug-19 A	10-Jan-20	-130	100%	90%										
9327	POD_LT22 - Passenger/disabled Lift (GF - 3F) - Lift Installation MEP 1st, 2nd & Fin	18	04-Jun-19	14-Aug-19	18-Nov-19 A	22-Jan-20	-133	100%	68%										
<b>Fireman's Lifts</b>																			
8950	POD_LT12_FS - Firemanpassenger/disabled Lift (B2-2F) - Lift Pit/Shaft/Machine Rm	20	26-Mar-19	05-Jun-19	16-Aug-19 A	24-Jan-20	-193	100%	73%										
<b>Escalators</b>																			
<b>Escalator No. and grid location by user_(SZ1)</b>																			
9498	POD_ES01-02_GL D-E/8-10_B2 to B1 - Install Truss Assy/Steps/Hand Rail MEP 1st	8	04-May-19	15-Jul-19	22-Oct-19 A	10-Jan-20	-149	100%	81%										
9499	POD_ES01-02_GL D-E/8-10_B2 to B1 - High Level MEP 1st, 2nd & final fix/ ABWF	18	16-Jul-19	12-Aug-19	03-Jan-20	23-Jan-20	-136	100%	0%										
9500	POD_ES01-02_GL D-E/8-10_B2 to B1 - Escalator Finishes (glazing, cladding, balu	24	13-Aug-19	09-Sep-19	24-Jan-20	28-Feb-20	-136	100%	0%										
9504	POD_ES05-06_GL D-E/4-7_GF to 2F - Install Truss Assy/Steps/Hand Rail MEP 1st	16	20-May-19	30-Jul-19	12-Nov-19 A	20-Jan-20	-144	100%	70%										
9505	POD_ES05-06_GL D-E/4-7_GF to 2F - High Level MEP 1st, 2nd & final fix/ ABWF	18	31-Jul-19	27-Aug-19	09-Dec-19 A	11-Feb-20	-132	100%	50%										
9506	POD_ES05-06_GL D-E/4-7_GF to 2F - Escalator Finishes (glazing, cladding, balu	20	28-Aug-19	25-Sep-19	18-Dec-19 A	13-Feb-20	-110	100%	50%										
9510	POD_ES03-04_GL D-E/5-6_B1 to GF - Install Truss Assy/Steps/Hand Rail MEP 1st	9	04-May-19	15-Jul-19	25-Oct-19 A	11-Jan-20	-150	100%	81%										
9511	POD_ES03-04_GL D-E/5-6_B1 to GF - High Level MEP 1st, 2nd & final fix/ ABWF	12	16-Jul-19	12-Aug-19	09-Dec-19 A	18-Jan-20	-132	100%	90%										
9512	POD_ES03-04_GL D-E/5-6_B1 to GF - Escalator Finishes (glazing, cladding, balu	24	13-Aug-19	09-Sep-19	20-Jan-20	24-Feb-20	-132	100%	0%										
9519	POD_ES11-12_GL C-D/2-3_B1 to GF - Install Truss Assy/Steps/Hand Rail MEP 1st	2	04-May-19	15-Jul-19	12-Sep-19 A	03-Jan-20	-143	100%	81%										
9522	POD_ES11-12_GL C-D/2-3_B1 to GF - Escalator Finishes (glazing, cladding, balu	18	13-Aug-19	09-Sep-19	24-Jan-20	24-Jan-20	-113	100%	81%										
9521	POD_ES11-12_GL C-D/2-3_B1 to GF - High Level MEP 1st, 2nd & final fix/ ABWF	18	16-Jul-19	12-Aug-19	04-Jan-20	24-Jan-20	-137	100%	0%										
9545	POD_ES13-14_GL D-G/11-12_LT to 3F - High Lvl MEP 1st,2nd,final fix/ABWF work	24	11-Oct-19	01-Nov-19	04-Feb-20	03-Mar-20	-96	100%	0%										
9544	POD_ES13-14_GL D-G/11-12_LT to 3F - Complete Escalator Installation (*2 shifts)	36	30-Jul-19	11-Oct-19	25-Feb-20	08-Apr-20	-144	100%	0%										
9546	POD_ES13-14_GL D-G/11-12_LT to 3F - Escalator Finishes (minor ABWF works)	12	02-Nov-19	29-Nov-19	01-Apr-20	15-Apr-20	-108	100%	0%										
<b>Staircases</b>																			
<b>Staircases Required for Pressurisation</b>																			
8969	POD_ST01B_FS - MEP 1st fix, 2nd fix	5	14-May-19	25-Jun-19	08-Apr-19 A	07-Jan-20	-162	100%	77.5%										
8971	POD_ST01B_FS - Permanent Hand Rail	13	03-Jul-19	17-Jul-19	18-Nov-19 A	16-Jan-20	-152	100%	90%										
8972	POD_ST01B_FS - Stair Nosing Tile	13	05-Jul-19	19-Jul-19	04-Jan-20	18-Jan-20	-152	100%	0%										
8970	POD_ST01B_FS - Wall Dust Sealer	26	10-Jun-19	10-Jul-19	02-Mar-20*	31-Mar-20	-215	100%	0%										
8973	POD_ST01B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	13-Jul-19	26-Jul-19	21-Mar-20	03-Apr-20	-204	100%	0%										
8977	POD_ST03B_FS - MEP 1st fix, 2nd fix	12	14-May-19	25-Jun-19	22-Jul-19 A	15-Jan-20	-169	100%	10%										
8979	POD_ST03B_FS - Permanent Hand Rail	13	03-Jul-19	17-Jul-19	18-Nov-19 A	16-Jan-20	-152	100%	90%										
8981	POD_ST03B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	13-Jul-19	26-Jul-19	18-Nov-19 A	15-Apr-20	-213	100%	50.01%										
8975	POD_ST03B_FS - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	05-Mar-20*	03-Apr-20	-275	100%	0%										
8978	POD_ST03B_FS - Wall Dust Sealer	26	10-Jun-19	10-Jul-19	12-Mar-20	11-Apr-20	-224	100%	0%										
8985	POD_ST04B_FS - MEP 1st fix, 2nd fix	5	14-May-19	25-Jun-19	08-Apr-19 A	07-Jan-20	-162	100%	72.5%										
8987	POD_ST04B_FS - Permanent Hand Rail	1	03-Jul-19	17-Jul-19	14-Oct-19 A	03-Jan-20	-140	100%	90%										
8989	POD_ST04B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	13-Jul-19	26-Jul-19	18-Nov-19 A	17-Apr-20	-215	100%	50.01%										
8983	POD_ST04B_FS - Ceiling Dust Sealer	26	01-Apr-19	02-May-19	07-Mar-20*	07-Apr-20	-277	100%	0%										
8986	POD_ST04B_FS - Wall Dust Sealer	26	10-Jun-19	10-Jul-19	11-Mar-20	10-Apr-20	-223	100%	0%										
8995	POD_ST05_FS - Permanent Hand Rail	13	14-Aug-19	28-Aug-19	07-Oct-19 A	16-Jan-20	-116	100%	90%										
8991	POD_ST05_FS - Ceiling Dust Sealer	26	03-May-19	01-Jun-19	10-Mar-20*	09-Apr-20	-253	100%	0%										
8994	POD_ST05_FS - Wall Dust Sealer	26	23-Jul-19	21-Aug-19	17-Mar-20	16-Apr-20	-192	100%	0%										
8997	POD_ST05_FS - All Other Finishes (DOOR) / Make Good & Clean	12	24-Aug-19	06-Sep-19	07-Apr-20	20-Apr-20	-181	100%	0%										
9001	POD_ST07B_FS - MEP 1st fix, 2nd fix	10	26-Jun-19	07-Aug-19	15-Apr-19 A	13-Jan-20	-131	100%	88.7%										
9003	POD_ST07B_FS - Permanent Hand Rail	8	14-Aug-19	28-Aug-19	21-Oct-19 A	10-Jan-20	-111	100%	90%										
9005	POD_ST07B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	24-Aug-19	06-Sep-19	25-Nov-19 A	11-Apr-20	-174	100%	50.01%										
8999	POD_ST07B_FS - Ceiling Dust Sealer	26	03-May-19	01-Jun-19	02-Mar-20*	31-Mar-20	-246	100%	0%										
9002	POD_ST07B_FS - Wall Dust Sealer	26	23-Jul-19	21-Aug-19	09-Mar-20	08-Apr-20	-185	100%	0%										
9009	POD_ST08B_FS - MEP 1st fix, 2nd fix	15	26-Jun-19	07-Aug-19	22-Jul-19 A	18-Jan-20	-136	100%	30%										
9011	POD_ST08B_FS - Permanent Hand Rail	13	14-Aug-19	28-Aug-19	14-Oct-19 A	16-Jan-20	-116	100%	90%										
9013	POD_ST08B_FS - All Other Finishes (DOOR) / Make Good & Clean	12	24-Aug-19	06-Sep-19	18-Nov-19 A	15-Apr-20	-177	100%	50.01%										
9007	POD_ST08B_FS - Ceiling Dust Sealer	26	03-Jun-19	04-Jul-19	05-Mar-20*	03-Apr-20	-223	100%	0%										







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										Qtr 1			Qtr 2			Qtr 3			Sep					
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug						
10080	POD_ST24 - Wall Dust Sealer	26	29-May-19	28-Jun-19	19-Mar-20	18-Apr-20	-239	100%	0%															
10091	POD_ST55B - All Other Finishes / Make Good & Clean	12	12-Nov-19	25-Nov-19	25-Nov-19 A	22-Apr-20	-118	100%	50.01%															
10087	POD_ST55B - MEP 1st fix, 2nd fix	12	11-Sep-19	25-Oct-19	02-Jan-20*	15-Jan-20	-68	100%	0%															
10085	POD_ST55B - Ceiling Dust Sealer	26	28-Aug-19	27-Sep-19	12-Mar-20	11-Apr-20	-157	100%	0%															
10088	POD_ST55B - Wall Dust Sealer	26	10-Oct-19	08-Nov-19	19-Mar-20	18-Apr-20	-129	100%	0%															
<b>Testing &amp; Commissioning</b>																								
<b>HVAC</b>																								
7560	POD_MEP_Wild_Air - Hydraulic Test (CWS/CWR)	12	06-Sep-19	21-Oct-19	17-Oct-19 A	15-Jan-20	-72	100%	60%															
7564	POD_MEP_Wild_Air - Pipes Flushing w/ Water Sample Test (Excl. Cinema Areas C)	14	06-Nov-19	22-Nov-19	26-Oct-19 A	23-Jan-20	-51	100%	60%															
7568	POD_MEP_Wild_Air - AHU SAT & LMCP SAT	14	02-Nov-19	03-Dec-19	26-Oct-19 A	20-Jan-20	-40	100%	80%															
7569	POD_MEP_Wild_Air - Start Up AHU @ Each Level	18	03-Dec-19	17-Dec-19	30-Nov-19 A	04-Feb-20	-34	100%	25%															
7570	POD_MEP_Wild_Air - Air Flow Test	24	17-Dec-19	16-Jan-20	14-Jan-20	18-Feb-20	-22	48.15%	0%															
7572	POD_MEP_Wild_Air - Air System Balancing	60	07-Feb-20	11-May-20	19-Feb-20	29-Apr-20	8	0%	0%															
7571	POD_MEP_Wild_Air - AHU Performance Test	15	16-Jan-20	07-Feb-20	13-Apr-20	29-Apr-20	-70	0%	0%															
<b>Electrical &amp; Controls</b>																								
9469	POD_EL - Test non-FSD Lifts w/ Permanent Power (10 nos)	24	15-Aug-19	11-Sep-19	02-Sep-19 A	08-Feb-20	-117	100%	80%															
7585	POD_EL - Power & Distribution Insulation/Continuity/Polarity Checks	58	26-Nov-19	09-Jan-20	13-Nov-19 A	17-Jan-20	-52	82.1%	50%															
9468	POD_EL - Test FSD Lifts w/ Permanent Power (4 nos)	22	13-Sep-19	21-Sep-19	19-Nov-19 A	04-Feb-20	-106	100%	59.99%															
7586	POD_EL - Power & Distribution Functional Components Test	60	03-Dec-19	16-Jan-20	21-Nov-19 A	20-Mar-20	-49	65.43%	35%															
9470	POD_EL - Test Escalators w/ Permanent Power for ES01 to 06, ES11 to 12	24	02-Nov-19	29-Nov-19	21-Jan-20	25-Feb-20	-66	100%	0%															
7580	POD_EL - Lighting & Control T&C	36	17-Dec-19	07-Feb-20	15-Feb-20	27-Mar-20	-43	32.1%	0%															
7583	POD_EL - AV Systems Test	36	17-Dec-19	07-Feb-20	15-Feb-20	27-Mar-20	-43	32.1%	0%															
9540	POD_EL - Test Escalators w/ Permanent Power for ES 03 to 06, ES11 to 14	24	02-Nov-19	29-Nov-19	19-Feb-20	17-Mar-20	-84	100%	0%															
7577	POD_EL - UPS T&C	24	02-Jan-20	07-Feb-20	29-Feb-20	27-Mar-20	-43	0%	0%															
7584	POD_EL - BMS Systems Test	24	02-Jan-20	07-Feb-20	29-Feb-20	27-Mar-20	-43	0%	0%															
<b>Plumbing &amp; Drainage</b>																								
1195	POD_P&D - Hydraulic Tests P&D	36	08-Oct-19	02-Dec-19	25-Sep-19 A	17-Mar-20	-82	100%	65%															
1197	POD_P&D - Equipment Test & Pumps Rotation Checks	40	05-Nov-19	02-Dec-19	04-Nov-19 A	19-Mar-20	-84	100%	30%															
<b>Fire Services</b>																								
1196	POD_FS - FS Hydraulic Test Pipe Works	60	11-Oct-19	05-Dec-19	28-Sep-19 A	19-Mar-20	-81	100%	70%															
7587	POD_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	55	24-Oct-19	05-Dec-19	22-Oct-19 A	13-Mar-20	-77	100%	60%															
7593	POD_FS - Genset Test	9	14-Nov-19	28-Nov-19	14-Nov-19 A	11-Jan-20	-37	100%	60%															
7589	POD_FS - Staircases Pressurisation Test	30	05-Nov-19	17-Dec-19	05-Dec-19 A	13-Feb-20	-42	100%	30%															
7595	POD_FS - Gas Flooding Test	18	14-Nov-19	05-Dec-19	02-Jan-20	22-Jan-20	-40	100%	0%															
AUDIT	POD_FS - Auditorium Air Flow Test	18	02-Dec-19	21-Dec-19	08-Jan-20	05-Feb-20	-30	100%	0%															
9293	POD_FS - Fire Shutters & Smoke Curtains Test (*2 shifts)	24	07-Nov-19	05-Dec-19	03-Feb-20	02-Mar-20	-66	100%	0%															
POD_L2	POD_FS - L2 Galleris and Lobby Air Flow Test (*assume temp doors/windows, if late)	30	02-Dec-19	07-Jan-20	04-Feb-20	09-Mar-20	-46	83.33%	0%															
ATRIUM	POD_FS - Atrium & Circulation Box Air Flow Test (*assume temp doors/windows, if late)	36	02-Dec-19	14-Jan-20	05-Feb-20	17-Mar-20	-47	69.44%	0%															
7594	POD_FS - Smoke Extraction Test	36	08-Feb-20	21-Feb-20	19-Feb-20	31-Mar-20	-33	0%	0%															
7592	POD_FS - AFA Devices Loop & Function Test (*2 shifts)	24	21-Nov-19	19-Dec-19	06-Mar-20	03-Apr-20	-82	100%	0%															
7590	POD_FS - Sprinkler & Pre-action System Test (*2 shifts)	24	21-Nov-19	19-Dec-19	12-Mar-20	10-Apr-20	-87	100%	0%															
7596	POD_FS - Integrated Systems Test & Hot Smoke Test (w/ FSD)	12	08-Feb-20	21-Feb-20	04-May-20	16-May-20	-71	0%	0%															
<b>M+ TOWER</b>																								
<b>Construction</b>																								
<b>Initial Works, Establishment &amp; Miscellaneous</b>																								
14238e	TW - Architectural Lightings Installation (C45/48/52/54A&B/84)	12	03-Feb-20	15-Feb-20	04-Jun-20	17-Jun-20	-103	0%	0%															
<b>Level 4</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>Raised Floor Area (Offices, Concourse, Lobbies) - TW_L4_Z01</b>																								
3493	TW_L4_Z01_RF.Area - MEP 2nd fix	3	12-Jul-19	01-Aug-19	15-Apr-19 A	04-Jan-20	-129	100%	99%															
3517	TW_L4_Z01_RF.Offices - Glass Partition & Doors/Ironmong	12	18-Oct-19	23-Oct-19	08-Jul-19 A	15-Jan-20	-70	100%	50%															
3540	TW_L4_Z01_RF.Area - Close ceiling (Open Cell Metal) incl. Cut-Outs (excl. offices)	20	02-Aug-19	13-Aug-19	10-Jul-19 A	07-Feb-20	-141	100%	49.54%															
3520	TW_L4_Z01_RF.Offices - Wall Painting	5	26-Sep-19	02-Oct-19	09-Sep-19 A	07-Jan-20	-80	100%	25%															
3495	TW_L4_Z01_RF.Area - MEP final fix (excl. offices)	18	07-Aug-19	20-Aug-19	16-Sep-19 A	23-Jan-20	-129	100%	90%															
3515	TW_L4_Z01_RF.Offices - MEP 2nd & final fix (offices)	18	12-Sep-19	26-Sep-19	16-Sep-19 A	23-Jan-20	-98	100%	90%															
3514	TW_L4_Z01_RF.Offices - Close ceiling (Open Cell Metal) incl. Cut-Outs	12	26-Aug-19	10-Sep-19	24-Jan-20	14-Feb-20	-123	100%	0%															
3516	TW_L4_Z01_RF.Area - Final floor finishes (timber flooring)	21	20-Sep-19	16-Oct-19	21-May-20	13-Jun-20	-196	100%	0%															
3534	TW_L4_Z01_RF.Area - Bamboo Capping	6	17-Oct-19	23-Oct-19	15-Jun-20	20-Jun-20	-196	100%	0%															
3521	TW_L4_Z01_RF.Area - All Other Finishes / Make Good & Clean	12	17-Oct-19	30-Oct-19	15-Jun-20	29-Jun-20	-196	100%	0%															
10370	TW_L4_Z01_RE.Area - Sprinkler baffle plates and left out/ temp. panel fixing	6			03-Jan-20*	09-Jan-20		0%	0%															
3545	TW_L4_Z01_RF.Offices - SF3 doors & ironmong	6	27-May-19	31-May-19	20-Jan-20*	03-Feb-20	-198	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L4_Z02</b>																								
3526	TW_L4_Z02_BoH - MEP 1st fix	6	02-Jul-19	05-Aug-19	04-Mar-19 A	08-Jan-20	-129	100%	99%															
3528	TW_L4_Z02_BoH - MEP 2nd fix	9	06-Aug-19	26-Aug-19	01-Apr-19 A	11-Jan-20	-114	100%	98%															
3527	TW_L4_Z02_BoH - Seal Wall Opening	12	06-Aug-19	12-Aug-19	02-Sep-19 A	15-Jan-20	-129	100%	80%															
3529	TW_L4_Z02_BoH - Door Frame & Plastering of Perimeter Edges	12	06-Aug-19	14-Aug-19	02-Sep-19 A	15-Jan-20	-127	100%	79%															
3537	TW_L4_Z02_BoH - Wall Epoxy/Emulsion Paint	18	27-Aug-19	12-Sep-19	09-Sep-19 A	22-Jan-20	-108	100%	25%															
3539	TW_L4_Z02_BoH - MEP final fix	12	27-Aug-19	02-Sep-19	16-Sep-19 A	15-Jan-20	-111	100%	60%															
3535	TW_L4_Z02_BoH - Floor sealer	19	12-Sep-19	13-Sep-19	23-Sep-19 A	23-Jan-20	-108	100%	50%															
3524	TW_L4_Z02_BoH - Misc Metal Works / Access Panels	15	13-Aug-19	19-Aug-19	01-Oct-19 A	18-Jan-20	-126	100%	40%															
3522	TW_L4_Z02_BoH - Door / Ironmong / Hose Reel Cabs	18	27-Aug-19	06-Sep-19	07-Oct-19 A	22-Jan-20	-113	100%	33.33%															
3523	TW_L4_Z02_BoH - All Other Finishes / Make Good & Clean	12	07-Sep-19	21-Sep-19	17-Jan-20	07-Feb-20	-108	100%	0%															
<b>Level 5</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>Raised Floor Area (Offices, Concourse, Lobbies) - TW_L5_Z01</b>																								
3985	TW_L5_Z01_RF.Area - MEP 2nd fix	3	09-Jul-19	29-Jul-19	15-Apr-19 A	04-Jan-20	-132	100%	99%															
3987	TW_L5_Z01_RF.Area - Raised Floor Setting Out/Pedestals	6	16-Jul-19	08-Aug-19	01-Aug-19 A	08-Jan-20	-126	100%	95%															
3989	TW_L5_Z01_RF.Area - MEP final fix (excl. offices)	18	03-Aug-19	16-Aug-19	16-Sep-19 A	23-Jan-20	-132	100%	90%															
3990	TW_L5_Z01_RF.Area - Raised Floor Base Panels	11	19-Aug-19	02-Sep-19	16-Sep-19 A	14-Jan-20	-110	100%	95%															



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
3463	TW_L6_Z02_BoH - Door / Ironmong / Hose Reel Cabs	19	16-Jul-19	26-Jul-19	07-Oct-19 A	23-Jan-20	-150	100%	64.29%															
3464	TW_L6_Z02_BoH - All Other Finishes / Make Good & Clean	12	16-Aug-19	29-Aug-19	18-Jan-20	08-Feb-20	-128	100%	0%															
3481	TW_L6_Z02_BoH - Floor sealer	2	21-Aug-19	22-Aug-19	23-Jan-20	24-Jan-20	-128	100%	0%															
<b>Toilets - TW_L6_Z03</b>																								
3446	TW_L6_Z03_Toilet - MEP 2nd fix	12	11-Jul-19	31-Jul-19	15-Apr-19 A	15-Jan-20	-139	100%	99%															
3448	TW_L6_Z03_Toilet - MEP final fix	20	13-Aug-19	19-Aug-19	16-Sep-19 A	24-Jan-20	-131	100%	50%															
3452	TW_L6_Z03_Toilet - Sanitary ware & fittings	38	08-Nov-19	08-Nov-19	23-Sep-19 A	22-Feb-20	-82	100%	20%															
3439	TW_L6_Z03_Toilet - Dry Wall Frame & Board - DR63 (external)	12	22-Jun-19	06-Jul-19	01-Oct-19 A	15-Jan-20	-160	100%	30%															
3451	TW_L6_Z03_Toilet - Wall finishes (tiling)	32	17-Oct-19	01-Nov-19	14-Oct-19 A	15-Feb-20	-82	100%	80%															
8776	TW_L6_Z03_Toilet - Conc fir curing, polishing & install protection	20	02-Sep-19	16-Oct-19	01-Nov-19 A	08-Feb-20	-90	100%	90%															
3442	TW_L6_Z03_Toilet - Ceiling Rods/ Grids	9	06-Jul-19	10-Jul-19	11-Nov-19 A	11-Jan-20	-154	100%	15%															
3447	TW_L6_Z03_Toilet - Door Frame	2	20-Jun-19	21-Jun-19	02-Jan-20	03-Jan-20	-162	100%	0%															
3443	TW_L6_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	5	01-Aug-19	07-Aug-19	13-Jan-20	17-Jan-20	-135	100%	0%															
3477	TW_L6_Z03_Toilet - Ceiling Finishes (painting)	4	08-Aug-19	12-Aug-19	16-Jan-20	20-Jan-20	-133	100%	0%															
3441	TW_L6_Z03_Toilet - All Other Finishes / Make Good & Clean	12	05-Nov-19	18-Nov-19	19-Feb-20	03-Mar-20	-82	100%	0%															
3440	TW_L6_Z03_Toilet - Door / Ironmong	2	09-Nov-19	11-Nov-19	24-Feb-20	25-Feb-20	-82	100%	0%															
<b>Level 7</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>Raised Floor Area (Offices, Concourse, Lobbies) - TW_L7_Z01</b>																								
3373	TW_L7_Z01_RF.Area - MEP final fix (excl. offices)	18	18-Jul-19	31-Jul-19	12-Aug-19 A	22-Jan-20	-145	100%	80%															
3396	TW_L7_Z01_RF.Area - Final floor finishes (timber flooring)	20	05-Sep-19	28-Sep-19	25-May-20	16-Jun-20	-211	100%	0%															
3419	TW_L7_Z01_RF.Area - Bamboo Capping	6	30-Sep-19	08-Oct-19	17-Jun-20	23-Jun-20	-211	100%	0%															
3397	TW_L7_Z01_RF.Offices - Glass Partition & Doors/Ironmong	18	27-Sep-19	08-Oct-19	08-Jul-19 A	22-Jan-20	-89	100%	60%															
3395	TW_L7_Z01_RF.Offices - MEP 2nd & final Fix (offices)	18	29-Aug-19	11-Sep-19	12-Aug-19 A	22-Jan-20	-109	100%	60%															
3400	TW_L7_Z01_RF.Offices - Wall Painting	18	13-Sep-19	19-Sep-19	09-Sep-19 A	22-Jan-20	-103	100%	50%															
4250	TW_L7_Z01_RF.Offices - Fixed Furniture	6	02-Oct-19	09-Oct-19	17-Jun-20	23-Jun-20	-210	100%	0%															
3401	TW_L7_Z01_RF.Area - All Other Finishes / Make Good & Clean	12	02-Oct-19	16-Oct-19	17-Jun-20	02-Jul-20	-210	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L7_Z02</b>																								
3427	TW_L7_Z02_BoH - Close Dry Wall	6	17-May-19	23-May-19	08-Jul-19 A	08-Jan-20	-190	100%	95%															
3424	TW_L7_Z02_BoH - MEP final fix	17	10-Sep-19	17-Sep-19	12-Aug-19 A	21-Jan-20	-104	100%	80%															
3409	TW_L7_Z02_BoH - Door Frame & Plastering of Perimeter Edges	12	02-Aug-19	10-Aug-19	02-Sep-19 A	15-Jan-20	-130	100%	66.66%															
3407	TW_L7_Z02_BoH - Seal Wall Opening	12	02-Aug-19	08-Aug-19	09-Sep-19 A	15-Jan-20	-132	100%	80%															
3422	TW_L7_Z02_BoH - Wall Epoxy/Emulsion Paint	8	23-Aug-19	09-Sep-19	02-Oct-19 A	17-Jan-20	-107	100%	25%															
3402	TW_L7_Z02_BoH - Door / Ironmong / Hose Reel Cabs	18	23-Aug-19	03-Sep-19	21-Oct-19 A	21-Jan-20	-116	100%	20%															
3403	TW_L7_Z02_BoH - All Other Finishes / Make Good & Clean	12	12-Sep-19	26-Sep-19	17-Jan-20	07-Feb-20	-104	100%	0%															
3420	TW_L7_Z02_BoH - Floor sealer	2	18-Sep-19	19-Sep-19	22-Jan-20	23-Jan-20	-104	100%	0%															
<b>Toilets - TW_L7_Z03</b>																								
3385	TW_L7_Z03_Toilet - MEP 2nd fix	6	04-Jul-19	24-Jul-19	02-May-19 A	08-Jan-20	-139	100%	99%															
3415	TW_L7_Z03_Toilet - Dry Wall Casing Board	6	24-May-19	28-May-19	15-Jul-19 A	08-Jan-20	-186	100%	95%															
3387	TW_L7_Z03_Toilet - MEP final fix	17	06-Aug-19	12-Aug-19	16-Sep-19 A	21-Jan-20	-134	100%	50%															
3391	TW_L7_Z03_Toilet - Sanitary ware & fittings	43	07-Nov-19	13-Nov-19	23-Sep-19 A	28-Feb-20	-83	100%	20%															
3378	TW_L7_Z03_Toilet - Dry Wall Frame & Board - DR63 (external)	12	15-Jun-19	28-Jun-19	01-Oct-19 A	15-Jan-20	-166	100%	30%															
8777	TW_L7_Z03_Toilet - Conc fir curing, polishing & install protection	20	02-Sep-19	16-Oct-19	06-Nov-19 A	05-Feb-20	-87	100%	90%															
3381	TW_L7_Z03_Toilet - Ceiling Rods/ Grids	8	28-Jun-19	03-Jul-19	18-Nov-19 A	10-Jan-20	-159	100%	15%															
3386	TW_L7_Z03_Toilet - Door Frame	2	13-Jun-19	14-Jun-19	02-Jan-20	03-Jan-20	-168	100%	0%															
3416	TW_L7_Z03_Toilet - Ceiling Finishes (painting)	4	01-Aug-19	05-Aug-19	10-Jan-20	14-Jan-20	-134	100%	0%															
3382	TW_L7_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	3	25-Jul-19	31-Jul-19	11-Jan-20	14-Jan-20	-138	100%	0%															
3390	TW_L7_Z03_Toilet - Wall finishes (tiling)	14	22-Oct-19	06-Nov-19	06-Feb-20	21-Feb-20	-83	100%	0%															
3380	TW_L7_Z03_Toilet - All Other Finishes / Make Good & Clean	12	09-Nov-19	22-Nov-19	25-Feb-20	09-Mar-20	-83	100%	0%															
3379	TW_L7_Z03_Toilet - Door / Ironmong	2	14-Nov-19	15-Nov-19	29-Feb-20	02-Mar-20	-83	100%	0%															
<b>Level 8</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>Raised Floor Area (Offices, Concourse, Lobbies) - TW_L8_Z01</b>																								
6450	TW_L8_Z01_RF.Area - MEP final fix (excl. offices)	18	26-Jul-19	08-Aug-19	14-Oct-19 A	22-Jan-20	-138	100%	80%															
3365	TW_L8_Z01_RF.Area - Close ceiling (Open Cell Metal) w/ In-situ Cut-Out (excl. offic	24	16-Jul-19	01-Aug-19	18-Dec-19 A	06-Feb-20	-150	100%	30%															
3335	TW_L8_Z01_RF.Area - Final floor finishes (timber flooring)	22	13-Sep-19	11-Oct-19	25-May-20	18-Jun-20	-204	100%	0%															
3358	TW_L8_Z01_RF.Area - Bamboo Capping	6	12-Oct-19	18-Oct-19	19-Jun-20	26-Jun-20	-204	100%	0%															
3336	TW_L8_Z01_RF.Offices - Glass Partition & Doors/Ironmong	12	10-Oct-19	18-Oct-19	01-Jul-19 A	15-Jan-20	-74	100%	45%															
3339	TW_L8_Z01_RF.Offices - Wall Painting	18	06-Sep-19	11-Sep-19	02-Oct-19 A	22-Jan-20	-109	100%	40%															
3334	TW_L8_Z01_RF.Offices - MEP 2nd & final fix (offices)	18	06-Sep-19	20-Sep-19	14-Oct-19 A	22-Jan-20	-102	100%	60%															
3333	TW_L8_Z01_RF.Offices - Close ceiling (Open Cell Metal) incl. Cut-Outs	30	13-Aug-19	23-Aug-19	16-Dec-19 A	13-Feb-20	-137	100%	50%															
6461	TW_L8_Z01_RF.Offices - Movable Partition	6	09-Oct-19	15-Oct-19	16-Jun-20	22-Jun-20	-204	100%	0%															
4251	TW_L8_Z01_RF.Offices - Fixed Furniture	6	14-Oct-19	19-Oct-19	22-Jun-20	29-Jun-20	-205	100%	0%															
3340	TW_L8_Z01_RF.Area - All Other Finishes / Make Good & Clean	12	14-Oct-19	26-Oct-19	22-Jun-20	07-Jul-20	-205	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L8_Z02</b>																								
3348	TW_L8_Z02_BoH - Door Frame & Plastering of Perimeter Edges	12	02-Apr-19	11-Apr-19	09-Sep-19 A	15-Jan-20	-231	100%	57.14%															
3361	TW_L8_Z02_BoH - Wall Epoxy/Emulsion Paint	16	19-Jul-19	05-Aug-19	09-Sep-19 A	22-Jan-20	-141	100%	25%															
3363	TW_L8_Z02_BoH - MEP final fix	11	19-Jul-19	25-Jul-19	16-Sep-19 A	14-Jan-20	-143	100%	80%															
3366	TW_L8_Z02_BoH - Close Dry Wall	14	03-Jun-19	10-Jun-19	23-Sep-19 A	17-Jan-20	-184	100%	85%															
3341	TW_L8_Z02_BoH - Door / Ironmong / Hose Reel Cabs	18	19-Jul-19	30-Jul-19	07-Oct-19 A	22-Jan-20	-146	100%	28.57%															
3342	TW_L8_Z02_BoH - All Other Finishes / Make Good & Clean	12	31-Jul-19	13-Aug-19	17-Jan-20	07-Feb-20	-141	100%	0%															
3359	TW_L8_Z02_BoH - Floor sealer	2	05-Aug-19	06-Aug-19	22-Jan-20	23-Jan-20	-141	100%	0%															
<b>Toilets - TW_L8_Z03</b>																								
6582	TW_L8_Z03_Toilet - MEP 2nd fix	9	20-Jul-19	09-Aug-19	17-Jun-19 A	14-Jan-20	-130	100%	98%															
3330	TW_L8_Z03_Toilet - Sanitary ware & fittings	40	13-Nov-19	19-Nov-19	23-Sep-																			







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
3780	TW_L13_Z01_FoH - MEP 1st fix	9	26-Feb-19	23-Apr-19	02-May-19 A	11-Jan-20	-218	100%	92%															
3785	TW_L13_Z01_FoH - MEP 2nd fix	15	24-Apr-19	15-May-19	15-Jul-19 A	18-Jan-20	-206	100%	82%															
3786	TW_L13_Z01_FoH - MEP final fix	21	14-Aug-19	27-Aug-19	23-Dec-19 A	03-Feb-20	-125	100%	10%															
3778	TW_L13_Z01_FoH - Ceiling Sealer	6	08-Dec-18	14-Dec-18	02-Jan-20*	08-Jan-20	-317	100%	0%															
3788	TW_L13_Z01_FoH - Wall finishes (painting or sealer)	5	21-Aug-19	26-Aug-19	20-Jan-20	24-Jan-20	-125	100%	0%															
3790	TW_L13_Z01_FoH - All Other Finishes / Make Good & Clean	12	26-Aug-19	09-Sep-19	25-Feb-20	09-Mar-20	-145	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L13_Z02</b>																								
3575	TW_L13_Z02_BoH - MEP 1st fix	7	13-Apr-19	18-May-19	06-May-19 A	09-Jan-20	-195	100%	82%															
3574	TW_L13_Z02_BoH - Wall & Ceiling Sealer	5	06-Apr-19	11-Apr-19	12-Aug-19 A	07-Jan-20	-224	100%	20%															
3584	TW_L13_Z02_BoH - Wall Plastering / Fendering	16	29-Mar-19	15-Apr-19	15-Apr-19 A	20-Jan-20	-232	100%	30%															
3577	TW_L13_Z02_BoH - MEP 2nd fix	16	03-Aug-19	23-Aug-19	19-Aug-19 A	20-Jan-20	-123	100%	82%															
3578	TW_L13_Z02_BoH - Door Frame & Plastering of Perimeter Edges	13	20-May-19	28-May-19	16-Sep-19 A	16-Jan-20	-193	100%	13.33%															
3586	TW_L13_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	13	03-Aug-19	16-Aug-19	23-Sep-19 A	16-Jan-20	-126	100%	82%															
3573	TW_L13_Z02_BoH - Misc Metal Works / Access Panels	19	24-Aug-19	30-Aug-19	14-Oct-19 A	23-Jan-20	-120	100%	73%															
3571	TW_L13_Z02_BoH - Door / Ironmong / Hose Reel Cabs	16	24-Aug-19	04-Sep-19	18-Nov-19 A	23-Jan-20	-116	100%	33.33%															
3588	TW_L13_Z02_BoH - Close Dry Wall	3	17-Aug-19	20-Aug-19	16-Dec-19 A	20-Jan-20	-126	100%	82%															
3587	TW_L13_Z02_BoH - MEP final fix	20	11-Sep-19	18-Sep-19	23-Dec-19 A	04-Feb-20	-108	100%	10%															
3576	TW_L13_Z02_BoH - Seal Wall Opening	6	20-May-19	25-May-19	10-Jan-20	16-Jan-20	-195	100%	0%															
3585	TW_L13_Z02_BoH - Wall Epoxy/Emulsion Paint	12	24-Aug-19	10-Sep-19	10-Jan-20	23-Jan-20	-111	100%	0%															
3581	TW_L13_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	10	24-Aug-19	04-Sep-19	21-Jan-20	08-Feb-20	-123	100%	0%															
3572	TW_L13_Z02_BoH - All Other Finishes / Make Good & Clean	12	13-Sep-19	27-Sep-19	03-Feb-20	15-Feb-20	-110	100%	0%															
3583	TW_L13_Z02_BoH - Floor sealer	2	19-Sep-19	20-Sep-19	05-Feb-20	06-Feb-20	-108	100%	0%															
<b>Toilets (FoH &amp; BoH) - TW_L13_Z03</b>																								
3671	TW_L13_Z03_Toilet - MEP 1st fix Ceiling	13	21-May-19	18-Jun-19	02-May-19 A	16-Jan-20	-176	100%	80%															
3667	TW_L13_Z03_Toilet - Dry Wall Frame & One Side Board	10	02-May-19	14-May-19	01-Oct-19 A	13-Jan-20	-202	100%	80%															
3658	TW_L13_Z03_Toilet - Seal Wall Opening	15	09-Apr-19	11-Apr-19	14-Oct-19 A	18-Jan-20	-234	100%	60%															
3657	TW_L13_Z03_Toilet - MEP 1st fix Dry Wall	16	15-May-19	28-May-19	04-Nov-19 A	20-Jan-20	-196	100%	80%															
3668	TW_L13_Z03_Toilet - MEP 1st fix Block Wall	8	29-Mar-19	08-Apr-19	04-Nov-19 A	10-Jan-20	-230	100%	80%															
3659	TW_L13_Z03_Toilet - MEP 2nd fix	19	10-Jul-19	30-Jul-19	11-Nov-19 A	23-Jan-20	-147	100%	80%															
3661	TW_L13_Z03_Toilet - MEP final fix	25	10-Aug-19	16-Aug-19	16-Dec-19 A	07-Feb-20	-138	100%	10%															
3665	TW_L13_Z03_Toilet - Sanitary ware & fittings	30	04-Dec-19	12-Dec-19	23-Dec-19 A	13-Feb-20	-45	100%	10%															
3660	TW_L13_Z03_Toilet - Door Frame	2	19-Jun-19	20-Jun-19	17-Jan-20	18-Jan-20	-176	100%	0%															
3669	TW_L13_Z03_Toilet - Dry Wall Closing Board	8	29-May-19	06-Jun-19	21-Jan-20	06-Feb-20	-196	100%	0%															
3654	TW_L13_Z03_Toilet - All Other Finishes / Make Good & Clean	12	09-Dec-19	21-Dec-19	10-Feb-20	22-Feb-20	-45	100%	0%															
3653	TW_L13_Z03_Toilet - Door / Ironmong	2	13-Dec-19	14-Dec-19	14-Feb-20	15-Feb-20	-45	100%	0%															
<b>BoH Kitchen - TW_L13_Z04</b>																								
3631	TW_L13_Z04_Kitchen - MEP 1st fix	9	01-Apr-19	15-Apr-19	02-May-19 A	11-Jan-20	-225	100%	84%															
3832	TW_L13_Z04_Kitchen - Wall & Floor Tiles	18	04-May-19	16-May-19	04-Nov-19 A	22-Jan-20	-209	100%	50%															
3765	TW_L13_Z04_Kitchen - MEP 2nd fix	12	18-Apr-19	25-Apr-19	11-Nov-19 A	15-Jan-20	-220	100%	84%															
3628	TW_L13_Z04_Kitchen - MEP final Fix	25	21-May-19	24-May-19	23-Dec-19 A	08-Feb-20	-209	100%	10%															
3831	TW_L13_Z04_Kitchen - Ceiling Paint	4	16-May-19	21-May-19	23-Jan-20	05-Feb-20	-209	100%	0%															
4136	TW_L13_Z04_Kitchen - All Other Finishes (DOOR) / Make Good & Clean	6	21-May-19	28-May-19	08-Feb-20	15-Feb-20	-212	100%	0%															
<b>Level 14</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Offices, Concourse &amp; Lobbies) - TW_L14_Z01</b>																								
3793	TW_L14_Z01_FoH - MEP 1st fix	9	26-Feb-19	23-Apr-19	02-May-19 A	11-Jan-20	-218	100%	84%															
3798	TW_L14_Z01_FoH - MEP 2nd fix	14	24-Apr-19	15-May-19	15-Jul-19 A	18-Jan-20	-206	100%	80%															
3799	TW_L14_Z01_FoH - MEP final fix	20	21-Aug-19	03-Sep-19	23-Dec-19 A	03-Feb-20	-119	100%	10%															
3791	TW_L14_Z01_FoH - Ceiling Sealer	6	08-Dec-18	14-Dec-18	02-Jan-20*	08-Jan-20	-317	100%	0%															
3801	TW_L14_Z01_FoH - Wall finishes (painting or sealer)	5	28-Aug-19	02-Sep-19	20-Jan-20	24-Jan-20	-119	100%	0%															
3803	TW_L14_Z01_FoH - All Other Finishes / Make Good & Clean	12	02-Sep-19	17-Sep-19	25-Feb-20	09-Mar-20	-139	100%	0%															
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L14_Z02</b>																								
3594	TW_L14_Z02_BoH - MEP 1st fix	8	13-Apr-19	18-May-19	06-May-19 A	10-Jan-20	-196	100%	81%															
3596	TW_L14_Z02_BoH - MEP 2nd fix	14	03-Aug-19	23-Aug-19	22-Jul-19 A	17-Jan-20	-121	100%	80%															
3593	TW_L14_Z02_BoH - Wall & Ceiling Sealer	5	06-Apr-19	11-Apr-19	12-Aug-19 A	07-Jan-20	-224	100%	5%															
3597	TW_L14_Z02_BoH - Door Frame & Plastering of Perimeter Edges	14	20-May-19	28-May-19	16-Sep-19 A	17-Jan-20	-194	100%	57%															
3605	TW_L14_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	9	03-Aug-19	16-Aug-19	23-Sep-19 A	11-Jan-20	-122	100%	80%															
3592	TW_L14_Z02_BoH - Misc Metal Works / Access Panels	17	24-Aug-19	30-Aug-19	14-Oct-19 A	21-Jan-20	-118	100%	67%															
3606	TW_L14_Z02_BoH - MEP final fix	21	11-Sep-19	18-Sep-19	23-Dec-19 A	03-Feb-20	-107	100%	10%															
3607	TW_L14_Z02_BoH - Close Dry Wall	3	17-Aug-19	20-Aug-19	23-Dec-19 A	15-Jan-20	-122	100%	80%															
3603	TW_L14_Z02_BoH - Wall Plastering / Fendering	14	29-Mar-19	15-Apr-19	03-Jan-20*	18-Jan-20	-231	100%	0%															
3595	TW_L14_Z02_BoH - Seal Wall Opening	6	20-May-19	25-May-19	11-Jan-20	17-Jan-20	-196	100%	0%															
3604	TW_L14_Z02_BoH - Wall Epoxy/Emulsion Paint	7	24-Aug-19	10-Sep-19	15-Jan-20	22-Jan-20	-110	100%	0%															
3590	TW_L14_Z02_BoH - Door / Ironmong / Hose Reel Cabs	10	24-Aug-19	04-Sep-19	18-Jan-20	06-Feb-20	-121	100%	0%															
3600	TW_L14_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	10	24-Aug-19	04-Sep-19	18-Jan-20	06-Feb-20	-121	100%	0%															
3591	TW_L14_Z02_BoH - All Other Finishes / Make Good & Clean	12	13-Sep-19	27-Sep-19	23-Jan-20	13-Feb-20	-108	100%	0%															
3602	TW_L14_Z02_BoH - Floor sealer	2	19-Sep-19	20-Sep-19	04-Feb-20	05-Feb-20	-107	100%	0%															
<b>Toilets (FoH &amp; BoH) - TW_L14_Z03</b>																								
3691	TW_L14_Z03_Toilet - MEP 1st fix Ceiling	12	01-Jun-19	29-Jun-19	02-May-19 A	15-Jan-20	-165	100%	80%															
3687	TW_L14_Z03_Toilet - Dry Wall Frame & One Side Board	6	15-May-19	27-May-19	16-Sep-19 A	08-Jan-20	-187	100%	80%															
3678	TW_L14_Z03_Toilet - Seal Wall Opening	14	09-Apr-19	11-Apr-19	14-Oct-19 A	17-Jan-20	-233	100%	60%															
3677	TW_L14_Z03_Toilet - MEP 1st fix Dry Wall	12	28-May-19	11-Jun-19	04-Nov-19 A	15-Jan-20	-181	100%	80%															
3688	TW_L14_Z03_Toilet - MEP 1st fix Block Wall	8	29-Mar-19	08-Apr-19</																				



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020									
										Qtr 1			Qtr 2			Qtr 3			
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>FoH Areas (Offices, Concourse &amp; Lobbies) - TW_L16_Z01</b>																			
3819	TW_L16_Z01_FoH - MEP 1st fix	6	26-Feb-19	23-Apr-19	02-May-19 A	08-Jan-20	-215	100%	90%										
3824	TW_L16_Z01_FoH - MEP 2nd fix	4	24-Apr-19	15-May-19	19-Aug-19 A	15-Jan-20	-203	100%	90%										
3825	TW_L16_Z01_FoH - MEP final fix	20	05-Jul-19	18-Jul-19	23-Dec-19 A	05-Feb-20	-161	100%	20%										
3817	TW_L16_Z01_FoH - Ceiling Sealer	6	08-Dec-18	14-Dec-18	02-Jan-20*	08-Jan-20	-317	100%	0%										
3827	TW_L16_Z01_FoH - Wall finishes (painting or sealer)	5	15-Jun-19	21-Jun-19	16-Jan-20	21-Jan-20	-178	100%	0%										
3829	TW_L16_Z01_FoH - All Other Finishes / Make Good & Clean	12	17-Jul-19	31-Jul-19	25-Feb-20	09-Mar-20	-179	100%	0%										
<b>BoH Plant Rooms, Corridors &amp; Lift Lobbies - TW_L16_Z02</b>																			
3737	TW_L16_Z02_BoH - MEP 1st fix	6	28-May-19	03-Jul-19	06-May-19 A	09-Jan-20	-158	100%	90%										
3739	TW_L16_Z02_BoH - MEP 2nd fix	12	04-Jul-19	24-Jul-19	22-Jul-19 A	15-Jan-20	-145	100%	90%										
3740	TW_L16_Z02_BoH - Door Frame & Plastering of Perimeter Edges	10	04-Jul-19	12-Jul-19	23-Sep-19 A	13-Jan-20	-153	100%	62%										
3748	TW_L16_Z02_BoH - Dry Wall MEP Services/Conduits MEP 1st fix	9	29-May-19	13-Jun-19	23-Sep-19 A	11-Jan-20	-177	100%	90%										
3735	TW_L16_Z02_BoH - Misc Metal Works / Access Panels	16	25-Jul-19	31-Jul-19	14-Oct-19 A	20-Jan-20	-143	100%	56%										
3733	TW_L16_Z02_BoH - Door / Ironmong / Hose Reel Cabs	15	25-Jul-19	05-Aug-19	20-Nov-19 A	18-Jan-20	-138	100%	33.33%										
3738	TW_L16_Z02_BoH - Seal Wall Opening	6	04-Jul-19	10-Jul-19	16-Dec-19 A	16-Jan-20	-158	100%	60%										
3746	TW_L16_Z02_BoH - Wall Plastering / Rendering	9	14-May-19	29-May-19	16-Dec-19 A	11-Jan-20	-188	100%	30%										
3749	TW_L16_Z02_BoH - MEP final fix	20	12-Aug-19	17-Aug-19	23-Dec-19 A	04-Feb-20	-134	100%	20%										
3750	TW_L16_Z02_BoH - Close Dry Wall	12	13-Jun-19	17-Jun-19	23-Dec-19 A	15-Jan-20	-177	100%	90%										
3736	TW_L16_Z02_BoH - Wall & Ceiling Sealer	5	21-May-19	25-May-19	02-Jan-20*	07-Jan-20	-187	100%	0%										
3747	TW_L16_Z02_BoH - Wall Epoxy/Emulsion Paint	12	25-Jul-19	10-Aug-19	10-Jan-20	23-Jan-20	-137	100%	0%										
3743	TW_L16_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	10	25-Jul-19	05-Aug-19	16-Jan-20	04-Feb-20	-145	100%	0%										
3734	TW_L16_Z02_BoH - All Other Finishes / Make Good & Clean	12	14-Aug-19	27-Aug-19	23-Jan-20	13-Feb-20	-134	100%	0%										
3745	TW_L16_Z02_BoH - Floor sealer	2	19-Aug-19	20-Aug-19	05-Feb-20	06-Feb-20	-134	100%	0%										
<b>Toilets (FoH &amp; BoH) - TW_L16_Z03</b>																			
3731	TW_L16_Z03_Toilet - MEP 1st fix Ceiling	6	11-Jun-19	03-Jul-19	02-May-19 A	11-Jan-20	-161	100%	90%										
3727	TW_L16_Z03_Toilet - Dry Wall Frame & One Side Board	6	23-May-19	05-Jun-19	16-Sep-19 A	08-Jan-20	-180	100%	90%										
3718	TW_L16_Z03_Toilet - Seal Wall Opening	11	21-May-19	23-May-19	14-Oct-19 A	14-Jan-20	-195	100%	70%										
3717	TW_L16_Z03_Toilet - MEP 1st fix Dry Wall	9	05-Jun-19	20-Jun-19	04-Nov-19 A	11-Jan-20	-171	100%	90%										
3728	TW_L16_Z03_Toilet - MEP 1st fix Block Wall	8	11-May-19	20-May-19	04-Nov-19 A	10-Jan-20	-195	100%	90%										
3719	TW_L16_Z03_Toilet - MEP 2nd fix	14	23-Jul-19	06-Aug-19	11-Nov-19 A	17-Jan-20	-137	100%	90%										
3721	TW_L16_Z03_Toilet - MEP final fix	19	19-Aug-19	26-Aug-19	16-Dec-19 A	23-Jan-20	-125	100%	20%										
3725	TW_L16_Z03_Toilet - Sanitary ware & fittings	28	31-Oct-19	09-Nov-19	23-Dec-19 A	11-Feb-20	-72	100%	20%										
3729	TW_L16_Z03_Toilet - Dry Wall Closing Board	6	20-Jun-19	29-Jun-19	23-Dec-19 A	18-Jan-20	-169	100%	70%										
3720	TW_L16_Z03_Toilet - Door Frame	2	03-Jul-19	05-Jul-19	13-Jan-20	14-Jan-20	-161	100%	0%										
3714	TW_L16_Z03_Toilet - All Other Finishes / Make Good & Clean	12	05-Nov-19	19-Nov-19	07-Feb-20	20-Feb-20	-72	100%	0%										
3713	TW_L16_Z03_Toilet - Door / Ironmong	2	09-Nov-19	12-Nov-19	12-Feb-20	13-Feb-20	-72	100%	0%										
<b>BoH Kitchen - TW_L16_Z04</b>																			
4159	TW_L16_Z04_Kitchen - MEP 1st fix	9	21-May-19	03-Jun-19	02-May-19 A	11-Jan-20	-184	100%	95%										
4161	TW_L16_Z04_Kitchen - MEP 2nd fix	12	10-Jun-19	15-Jun-19	11-Nov-19 A	15-Jan-20	-177	100%	95%										
4163	TW_L16_Z04_Kitchen - Wall & Floor Tiles	24	12-Jul-19	03-Aug-19	11-Nov-19 A	06-Feb-20	-149	100%	58%										
4166	TW_L16_Z04_Kitchen - All Other Finishes (DOOR) / Make Good & Clean	37	03-Aug-19	10-Aug-19	20-Nov-19 A	24-Feb-20	-158	100%	95%										
4164	TW_L16_Z04_Kitchen - MEP final fix	33	03-Aug-19	07-Aug-19	23-Dec-19 A	17-Feb-20	-155	100%	20%										
4165	TW_L16_Z04_Kitchen - Ceiling Paint	6	23-May-19	30-May-19	07-Feb-20	13-Feb-20	-209	100%	0%										
<b>Level RF</b>																			
<b>ABWF &amp; MEP Works - TW_RF_Z01 &amp; RF_Z02</b>																			
4222	TW_RF_Z01 & RF_Z02 - Builders Works Plant Rooms	8	29-Mar-19	13-May-19	01-May-19 A	10-Jan-20	-202	100%	80%										
4223	TW_RF_Z01 & RF_Z02 - MEP 1st fix Plant Rooms & Service Trenches	14	27-Apr-19	03-Jul-19	06-May-19 A	17-Jan-20	-166	100%	83%										
4224	TW_RF_Z01 & RF_Z02 - MEP 2nd Fix Plant Rooms & Service Trenches	20	03-Jul-19	14-Aug-19	20-May-19 A	24-Jan-20	-136	100%	83%										
4225	TW_RF_Z01 - MEP final fix Plant Rooms	20	14-Aug-19	11-Sep-19	23-Sep-19 A	08-Feb-20	-118	100%	30%										
3833	TW_RF_Z01 & Z02 - All Other Finishes (DOOR) / Make Good & Clean	32	23-Sep-19	09-Oct-19	03-Jun-19 A	15-Feb-20	-103	100%	60%										
4554	TW_RF_Z01 - Roof concrete tiles	13	29-Mar-19	24-Apr-19	07-Oct-19 A	16-Jan-20	-222	100%	90%										
<b>EWS (External Wall System)</b>																			
<b>M+ Tower LED System</b>																			
<b>Installation, T&amp;C</b>																			
<b>Installation</b>																			
7771	TW_LED - Ceiling at Office Areas (L4 to L16) PSU, enclosure box, Epix converter)	24	01-Nov-19	04-Jan-20	01-Nov-19 A	06-Feb-20	-21	94.44%	20%										
11142	TW_LED - MEP Rooms (L3/5/7/9/11/13/15) AOM/MB Panels	12	01-Nov-19	30-Nov-19	01-Nov-19 A	15-Jan-20	-37	100%	20%										
11143	POD_TW_LED - Riser & Connection to B2 (fibre optic, conns to Ethemet, B2 AOM,	20	03-Dec-19	15-Jan-20	09-Dec-19 A	13-Feb-20	-18	66.67%	50%										
11139	TW_LED - ELV Rooms (L5/7/9/11/13/15) Cabling, RJ45, EQP rack, Ethernet Switch	20	05-Dec-19	15-Jan-20	11-Dec-19 A	13-Feb-20	-18	64.71%	50%										
11145	POD_LED - B2 Cntrl Room Works (HDMI/DVI/DVD/LCE-FX2/Monitors)	12	31-Dec-19	14-Jan-20	02-Jan-20	15-Jan-20	-1	8.33%	0%										
11162	TW_LED - GCL Property Manag Room (B2-1-026) Power ON Checks, ESSW...	6	20-Dec-19	27-Dec-19	02-Jan-20	08-Jan-20	-9	100%	0%										
11164	TW_LED - GCL Dismantle Temp FS Hydrant Pipe, Enlarge Opening at Western ST	10	16-Dec-19	27-Dec-19	02-Jan-20	13-Jan-20	-13	100%	0%										
11157	TW_LED - ST West Conceal Conduit & Cable Remedial Works	30	28-Dec-19	10-Feb-20	14-Jan-20	25-Feb-20	-13	10%	0%										
11155	TW_LED - Lighting Rectification Works	42	11-Feb-20	30-Mar-20	06-Mar-20	24-Apr-20	-21	0%	0%										
<b>T&amp;C</b>																			
11148	TW_LED - Ad Hoc Connection Test (AOM Checks, Light on floor/facade)	42	20-Dec-19	17-Feb-20	16-Jan-20	12-Mar-20	-21	21.43%	0%										
11149	TW_LED - Planned Integrated Connection Test (AOM, Light on floor/facade)	30	18-Feb-20	23-Mar-20	13-Mar-20	17-Apr-20	-21	0%	0%										
11151	TW_LED - T&C with Consultant Pre-Check (ad hoc)	30	18-Feb-20	23-Mar-20	13-Mar-20	17-Apr-20	-21	0%	0%										
11152	TW_LED - T&C with Consultant Planned & Final Inspection (BMU required)	18	24-Mar-20	14-Apr-20	18-Apr-20	09-May-20	-21	0%	0%										
<b>Install EWS (External Wall System - Facade)</b>																			
3834	TW_EWS - All Other Finishes / Make Good & Clean	36	04-Jul-19	29-Aug-19	01-Jul-19 A	22-Feb-20	-141	100%	25.01%										
3764	TW_EWS - Install Ancillaries @ Roof (flushings/cladding/cable connections/balustrae)	32	04-Jul-19	15-Aug-19	01-Oct-19 A	15-Feb-20	-147	100%	79.96%										
<b>Vertical Transportation</b>																			
<b>Lifts</b>																			
6436	TW_LT03/04 Central - Staff Lifts (B2F - 13F) - Builders Works	26	18-May-19	18-Jun-19	10-Dec-19 A	08-Feb-20	-189	100%	50%										
6533	TW_LT03/04 Central - Staff Lifts (B2F - 13F) - Lift Pit/Shaft/Machine Rm MEP 1st, 2	40	19-Jun-19	28-Aug-19	26-Dec-19 A	25-Feb-20	-143	100%	5%										
6535	TW_LT05/06 Central - Public Lifts (B2F - 16F) - Lift Pit/Shaft/Machine Rm MEP 1st,	13	18-Jun-19	27-Aug-19	23-Jul-19 A	16-Jan-20	-117	100%	75%										
6537	TW_LT09_FS/10 East - Service Lifts (GF - 16F) - Lift Pit/Shaft/Machine Rm MEP 1st,	12	18-Jun-19	28-Aug-19	16-Aug-19 A	15-Jan-20	-116	100%	70%										
6437	TW_Lifts - All Other Finishes / Make Good & Clean	24	29-Aug-19	26-Sep-19	12-Feb-20	10-Mar-20	-131	100%	0%										
<b>Staircases</b>																			
<b>ST-02a Central</b>																			
4195	TW_ST02a Central - MEP 1st fix, 2nd fix	10	14-Feb-19	27-Mar-19	06-May-19 A	13-Jan-20	-241	100%	95%										
4193	TW_ST02a Central - Ceiling Dust Sealer	26	24-Jan-19	01-Mar-19	02-Jan-20*	08-Feb-20	-279	100%	0%										
4196	TW_ST02a Central - Wall Dust Sealer	26	12-Mar-19	11-Apr-19	02-Jan-20	08-Feb-20	-245	100%	0%										
4198	TW_ST02a Central - Floor Bamboo Plank 4/F to 11/F	16	11-Jul-19	29-Jul-19	21-May-20	08-Jun-20	-256	100%	0%										
6438	TW_ST02a Central - All Other Finishes (DOOR) / Make Good & Clean	12	23-Jul-19	05-Aug-19	02-Jun-20	15-Jun-20	-256	100%	0%										
<b>ST-02 Central</b>																			
4186	TW_ST02 Central - MEP 1st fix, 2nd fix	12	14-Feb-19	27-Mar-19	06-May-19 A	15-Jan-20	-243	100%	95%										
4184	TW_ST02 Central - Ceiling Dust Sealer	26	24-Jan-19	01-Mar-19	02-Mar-20*	31-Mar-20	-323	100%	0%										
4188	TW_ST02 Central - Wall Dust Sealer	26	12-Mar-19	11-Apr-19	09-Mar-20	08-Apr-20	-295	100%	0%										
4191	TW_ST02 Central - Floor Dust Sealer	13	22-Apr-19	07-May-19	16-Mar-20	30-Mar-20	-267	100%	0%										
6440	TW_ST02 Central - All Other Finishes (DOOR) / Make Good & Clean	12	08-May-19	21-May-19	01-Apr-20	15-Apr-20	-268	100%	0%										
<b>ST-03 East Core</b>																			
4180	TW_ST03 East - MEP 1st fix, 2nd fix	10	01-Aug-19	12-Sep-19	02-May-19 A	13-Jan-20	-101	100%	95%										
6441	TW_ST03 East - All Other Finishes (DOOR) / Make Good & Clean	40	30-Sep-19	16-Oct-19	16-Sep-19 A	03-Apr-20	-138	100%	23.2%										
4182	TW_ST03 East - Permanent Hand Rail	6	19-Sep-19	05-Oct-19	23-Sep-19 A	08-Jan-20	-79	100%	95%										
9872	TW_ST03 East - Metal Balustrade	12	27-Jul-19	24-Aug-19	14-Oct-19 A	15-Jan-20	-119	100%	95%										
4179	TW_ST03 East - Floor W/proof Screed	26	25-Jul-19	24-Aug-19	25-Nov-19 A	08-Feb-20	-133	100%	5%										
4183	TW_ST03 East - Stair Nosing Tile	13	21-Sep-19	09-Oct-19	02-Jan-20	16-Jan-20	-84	100%	0%										
4178	TW_ST03 East - Ceiling & Beam Dust Sealer	26	18-Jul-19	17-Aug-19	02-Mar-20*	31-Mar-20	-183	100%	0%										
4181	TW_ST03 East - Wall Dust Sealer	26	27-Aug-19	27-Sep-19	02-Mar-20	31-Mar-20	-149	100%	0%										
<b>ST-01 West Core</b>																			
4170	TW_ST01 East - MEP 1st fix, 2nd fix	10	01-Aug-19	12-Sep-19	06-May-19 A	13-Jan-20	-101	100%	95%										
4172	TW_ST01 East - Permanent Hand Rail	6	19-Sep-19	05-Oct-19	16-Sep-19 A	08-Jan-20	-79	100%	95%										
6442	TW_ST01 East - All Other Finishes (DOOR) / Make Good & Clean	33	30-Sep-19	16-Oct-19	16-Sep-19 A	08-Apr-20	-141	100%	23.2%										
41																			



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020												
										2019			Qtr 1			Qtr 2			Qtr 3			
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
9463	TW_P&D - Equipment Test & Pumps Rotation Checks	24	28-Oct-19	25-Nov-19	16-Jan-20	20-Feb-20	-67	100%	0%													
<b>Fire Services</b>																						
7613	TW_FS - FS Hydraulic Test Pipe Works	22	12-Sep-19	28-Oct-19	15-Jul-19 A	04-Feb-20	-77	100%	79.99%													
7632	TW_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	32	25-Sep-19	24-Oct-19	04-Nov-19 A	22-Feb-20	-95	100%	30%													
7634	TW_FS - Sprinkler System Test	40	28-Oct-19	25-Nov-19	16-Dec-19 A	07-Mar-20	-81	100%	10%													
7635	TW_FS - AFA Devices Loop & Functional Test	42	25-Oct-19	21-Nov-19	16-Dec-19 A	09-Mar-20	-84	100%	10%													
<b>CSF BUILDING</b>																						
<b>Construction</b>																						
<b>Level GF</b>																						
<b>ABWF &amp; MEP Works</b>																						
<b>FoH Areas (Storages, Offices, Lift Lobby, etc) - CSF_GF_Z01</b>																						
5738	CSF_GF_Z01_FoH - Gypsum Block wall MEP Services/Conduits (MEP 1st fix)	2	17-May-19	30-May-19	22-Apr-19 A	03-Jan-20	-180	100%	96.01%													
5746	CSF_GF_Z01_FoH - Perimeter Gypsum Block Wall	2	29-May-19	17-Jun-19	24-Jun-19 A	03-Jan-20	-166	100%	95%													
5742	CSF_GF_Z01_FoH - Floor Screed	4	02-May-19	07-May-19	21-Oct-19 A	06-Jan-20	-202	100%	85%													
5745	CSF_GF_Z01_FoH - Perimeter Foamglas Insulation (Remaining Works)	6	08-May-19	28-May-19	04-Nov-19 A	09-Jan-20	-187	100%	85%													
5733	CSF_GF_Z01_FoH - MEP 2nd fix	2	20-Jul-19	09-Aug-19	22-Apr-19 A	03-Jan-20	-121	100%	97.12%													
5747	CSF_GF_Z01_FoH - Perimeter Gypsum Block Wall Plaster/Skim Coat	10	18-Jun-19	02-Jul-19	25-Jun-19 A	13-Jan-20	-162	100%	95%													
5736	CSF_GF_Z01_FoH - MEP 2nd fix Gypsum Block wall	6	24-May-19	14-Jun-19	22-Jul-19 A	08-Jan-20	-172	100%	96%													
5734	CSF_GF_Z01_FoH - MEP final fix	8	28-Aug-19	10-Sep-19	23-Sep-19 A	11-Jan-20	-101	100%	85.01%													
5740	CSF_GF_Z01_FoH - Ceiling & wall finishes (painting)	14	10-Aug-19	03-Sep-19	28-Oct-19 A	17-Jan-20	-112	100%	55%													
5771	CSF_GF_Z01_FoH - MEP final fix Install Gas Suppression Cyl (delay to just before F	2	08-Nov-19	21-Nov-19	11-Nov-19 A	03-Jan-20	-35	100%	85%													
6112	CSF_GF_Z01_FoH - Exh. Layout Rm, Vis. Storage & Lift Lob Close ceiling (board)	16	03-Aug-19	19-Aug-19	09-Dec-19 A	21-Jan-20	-128	100%	30%													
5743	CSF_GF_Z01_FoH - Floor Sealer	2	04-Sep-19	06-Sep-19	18-Jan-20	20-Jan-20	-111	100%	0%													
6107	CSF_GF_Z01_FoH - Exh. Layout Rm & Vis. Storage Roller Blind System Inst'n	9	20-Aug-19	29-Aug-19	03-Feb-20*	12-Feb-20	-131	100%	0%													
6108	CSF_GF_Z01_FoH - Exh. Layout Rm Timber flooring	11	22-Jan-20	11-Feb-20	24-Mar-20	06-Apr-20	-46	0%	0%													
5741	CSF_GF_Z01_FoH - All Other Finishes / Make Good & Clean	12	12-Feb-20	25-Feb-20	30-Mar-20	13-Apr-20	-40	0%	0%													
5737a	CSF_GF_Z01_FoH - 1no O'S SR3 Doors & Iron., (Permanent)	3			01-Jun-20	03-Jun-20		0%	0%													
111136	CSF_GF_Z01_FoH - Museum Storage System (Fixed Screen & Dwg Cabinets) Inst.	30			01-Jun-20	07-Jul-20		0%	0%													
<b>Corridors with Suspended Ceilings - CSF_GF_Z02</b>																						
5748	CSF_GF_Z02_Corr - MEP final fix	4	03-Aug-19	09-Aug-19	19-Aug-19 A	06-Jan-20	-123	100%	90.03%													
5755	CSF_GF_Z02_Corr - Ceiling & Wall (painting & sealer)	2	26-Jul-19	02-Aug-19	22-Nov-19 A	03-Jan-20	-127	100%	40.01%													
5757	CSF_GF_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	8	07-Aug-19	13-Aug-19	22-Nov-19 A	10-Jan-20	-124	100%	70.02%													
5756	CSF_GF_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	04-Jan-20	07-Jan-20	-127	100%	0%													
<b>BOH (GL B'-B'+; 5'-6' &amp; G.L.F. 4'+5'+) - CSF_GF_Z03</b>																						
5765	CSF_GF_Z03_BoH - Wall Epoxy Paint	4	17-Jul-19	23-Jul-19	21-Oct-19 A	06-Jan-20	-138	100%	80.02%													
5767	CSF_GF_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	6	01-Aug-19	07-Aug-19	23-Nov-19 A	09-Jan-20	-128	100%	50.01%													
5766	CSF_GF_Z03_BoH - Floor Sealer	1	24-Jul-19	24-Jul-19	07-Jan-20	07-Jan-20	-138	100%	0%													
<b>AHU Room - CSF_GF_Z04</b>																						
5775	CSF_GF_Z04_AHU - MEP final fix	4	26-Jun-19	13-Jul-19	29-Jul-19 A	06-Jan-20	-146	100%	91.99%													
5781	CSF_GF_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	13-Jul-19	19-Jul-19	09-Dec-19 A	09-Jan-20	-144	100%	60.01%													
5780	CSF_GF_Z04_AHU - Floor Sealer	2	15-Jul-19	16-Jul-19	02-Jan-20	03-Jan-20	-142	100%	0%													
<b>Level 1</b>																						
<b>ABWF &amp; MEP Works</b>																						
<b>FoH Areas (Storages, Offices, Lift Lobby, etc) - CSF_L1_Z01</b>																						
11580	CSF_L1_Z01_FoH - Museum Storage System (3 Items) Installation	30			01-Jun-20	07-Jul-20		0%	0%													
11583	CSF_L1_Z01_FoH - Mobile Screen Installation	31			20-Jun-20	28-Jul-20		0%	0%													
5430	CSF_L1_Z01_FoH - Wall finishes (painting or sealer)	2	26-Jul-19	12-Aug-19	05-Feb-19 A	03-Jan-20	-119	100%	95%													
5426	CSF_L1_Z01_FoH - MEP final fix	4	06-Aug-19	19-Aug-19	29-Jul-19 A	06-Jan-20	-115	100%	92.01%													
5431	CSF_L1_Z01_FoH - All Other Finishes / Make Good & Clean	22	13-Aug-19	26-Aug-19	13-Dec-19 A	04-Feb-20	-127	100%	29.99%													
5432	CSF_L1_Z01_FoH - Floor Sealer	10	13-Aug-19	17-Aug-19	02-Jan-20	13-Jan-20	-123	100%	0%													
<b>Corridors with Suspended Ceilings - CSF_L1_Z02</b>																						
5445	CSF_L1_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	10	06-Aug-19	12-Aug-19	24-Jun-19 A	14-Jan-20	-128	100%	80.02%													
5443	CSF_L1_Z02_Corr - MEP final fix	8	02-Aug-19	08-Aug-19	29-Jul-19 A	10-Jan-20	-128	100%	90.03%													
5444	CSF_L1_Z02_Corr - Ceiling & Wall Paint	2	26-Jul-19	01-Aug-19	21-Oct-19 A	03-Jan-20	-128	100%	95.02%													
5442	CSF_L1_Z02_Corr - Floor Sealer	3	02-Aug-19	05-Aug-19	04-Jan-20	07-Jan-20	-128	100%	0%													
<b>BOH (GL B'-B'+; 5'-6' &amp; G.L.F. 4'+5'+) - CSF_L1_Z03</b>																						
5459	CSF_L1_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	10	17-Jun-19	22-Jun-19	18-Nov-19 A	13-Jan-20	-169	100%	90.02%													
<b>AHU Room - CSF_L1_Z04</b>																						
5473	CSF_L1_Z04_AHU - MEP final fix (Wild Air Stage 1)	6	08-Apr-19	24-Apr-19	20-May-19 A	08-Jan-20	-214	100%	93%													
5474	CSF_L1_Z04_AHU - Floor Sealer	8	04-May-19	06-May-19	17-Jun-19 A	10-Jan-20	-207	100%	70.02%													
5475	CSF_L1_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	10	03-May-19	09-May-19	26-Aug-19 A	14-Jan-20	-207	100%	90.02%													
<b>Level 2</b>																						
<b>ABWF &amp; MEP Works</b>																						
<b>FoH Areas (Storages, Offices, Lift Lobby, etc) - CSF_L2_Z01</b>																						
11579	CSF_L2_Z01_FoH - Museum Storage System (2 Items) Installation	30			01-Jun-20	07-Jul-20		0%	0%													
11584	CSF_L2_Z01_FoH - Mobile Screen Installation	31			20-Jun-20	28-Jul-20		0%	0%													
5683	CSF_L2_Z01_FoH - Doors/Ironmong	4	26-Aug-19	31-Aug-19	24-Jun-19 A	06-Jan-20	-104	100%	80%													
5680	CSF_L2_Z01_FoH - MEP final fix	8	19-Aug-19	31-Aug-19	29-Jul-19 A	10-Jan-20	-108	100%	95.01%													
5686	CSF_L2_Z01_FoH - Wall finishes (painting or sealer)	6	03-Aug-19	24-Aug-19	28-Oct-19 A	08-Jan-20	-112	100%	90%													
5687	CSF_L2_Z01_FoH - All Other Finishes / Make Good & Clean	12	26-Aug-19	07-Sep-19	14-Dec-19 A	15-Jan-20	-106	100%	39.99%													
5689	CSF_L2_Z01_FoH - Floor Sealer	4	26-Aug-19	30-Aug-19	06-Jan-20	10-Jan-20	-110	100%	0%													
<b>Corridors with Suspended Ceilings - CSF_L2_Z02</b>																						
5701	CSF_L2_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	8	07-Aug-19	13-Aug-19	24-Jun-19 A	10-Jan-20	-124	100%	90.02%													
5693	CSF_L2_Z02_Corr - MEP final fix	2	03-Aug-19	09-Aug-19	29-Jul-19 A	03-Jan-20	-121	100%	96.03%													
5699	CSF_L2_Z02_Corr - Ceiling & Wall Paint	4	27-Jul-19	02-Aug-19	28-Oct-19 A	06-Jan-20	-129	100%	95%													
5700	CSF_L2_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	06-Jan-20	08-Jan-20	-128	100%	0%													
<b>BOH (GL B'-B'+; 5'-6' &amp; G.L.F. 4'+5'+) - CSF_L2_Z03</b>																						
5708	CSF_L2_Z03_BoH - Wall Epoxy Paint (Remaining Works)	2	26-Dec-18	03-Jan-19	21-Oct-19 A	03-Jan-20	-298	100%	90%													
5710	CSF_L2_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	12	03-Aug-19	09-Aug-19	19-Nov-19 A	15-Jan-20	-131	100%	80.02%													
<b>AHU Room - CSF_L2_Z04</b>																						
5718	CSF_L2_Z04_AHU - MEP final fix (Wild Air Stage 1)	4	08-Apr-19	24-Apr-19	27-May-19 A	06-Jan-20	-212	100%	93.99%													
5723	CSF_L2_Z04_AHU - Floor Sealer	2	23-Apr-19	24-Apr-19	24-Jun-19 A	03-Jan-20	-210	100%	75%													
5724	CSF_L2_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	22-Apr-19	27-Apr-19	24-Jun-19 A	10-Jan-20	-213	100%	85.02%													
<b>Level 3</b>																						
<b>ABWF &amp; MEP Works</b>																						
<b>FoH Areas (Storages, Offices, Lift Lobby, etc) - CSF_L3_Z01</b>																						
11581	CSF_L3_Z01_FoH - Museum Storage System (2 Items) Installation	30			01-Jun-20	07-Jul-20		0%	0%													
5627	CSF_L3_Z01_FoH - Doors/Ironmong	14	13-Aug-19	19-Aug-19	09-Sep-19 A	17-Jan-20	-125	100%	90.02%													



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020											
										2019			Qtr 1			Qtr 2			Qtr 3		
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
5515	CSF L5_Z01_FoH - Floor Sealer	4	24-Aug-19	29-Aug-19	06-Jan-20	10-Jan-20	-111	100%	0%												
<b>Corridors with Suspended Ceilings - CSF L5_Z02</b>																					
5519	CSF L5_Z02_Corr - MEP final fix	8	03-Aug-19	09-Aug-19	29-Jul-19 A	10-Jan-20	-127	100%	96.03%												
5529	CSF L5_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	14	07-Aug-19	13-Aug-19	23-Sep-19 A	17-Jan-20	-130	100%	80.02%												
5526	CSF L5_Z02_Corr - Close ceiling (board) incl. Cut-Outs	2	19-Jul-19	26-Jul-19	28-Oct-19 A	03-Jan-20	-133	100%	85%												
5527	CSF L5_Z02_Corr - Ceiling & Wall Paint	4	27-Jul-19	02-Aug-19	28-Oct-19 A	06-Jan-20	-129	100%	85.02%												
5528	CSF L5_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	07-Jan-20	09-Jan-20	-129	100%	0%												
<b>BOH (GL B'B'+; 5'-6' &amp; G.L. F, 4'+5'+) - CSF L5_Z03</b>																					
5540	CSF L5_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	10	28-Aug-19	03-Sep-19	25-Nov-19 A	13-Jan-20	-108	100%	80.02%												
<b>AHU Room - CSF L5_Z04</b>																					
5549	CSF L5_Z04_AHU - MEP final fix (Wild Air Stage 1)	6	29-Jun-19	15-Jul-19	29-Jul-19 A	08-Jan-20	-148	100%	95%												
5556	CSF L5_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	10	10-Jul-19	16-Jul-19	16-Nov-19 A	13-Jan-20	-150	100%	80.02%												
5555	CSF L5_Z04_AHU - Floor Sealer	2	08-Jul-19	09-Jul-19	02-Jan-20*	03-Jan-20	-148	100%	0%												
<b>Level 6</b>																					
<b>ABWF &amp; MEP Works</b>																					
<b>FoH Areas (Storages, Offices, Lift Lobby etc) - CSF L6_Z01</b>																					
111132	CSF L6_Z01_FoH - Resin Floor System Installation	12			25-Feb-20*	09-Mar-20		0%	0%												
11586	CSF L6_Z01_FoH - Lab Furniture & Loose Furniture Installation @ Paper Scroll & :	18			16-Apr-20	07-May-20		0%	0%												
5803	CSF L6_Z01_FoH - Floor Screed (Remaining Works)	2	12-Dec-18	19-Dec-18	17-Jun-19 A	04-Jan-20	-310	100%	95%												
6130	CSF L6_Z01_FoH - Ceiling Grids incl. support frame for Glass & Movable Partition	16	11-Jul-19	26-Jul-19	19-Aug-19 A	22-Jan-20	-149	100%	95%												
5794	CSF L6_Z01_FoH - MEP final fix	14	02-Sep-19	16-Sep-19	18-Sep-19 A	17-Jan-20	-102	100%	86.01%												
5800	CSF L6_Z01_FoH - Wall finishes (painting or sealer)	10	07-Aug-19	28-Aug-19	14-Oct-19 A	13-Jan-20	-113	100%	80%												
5799	CSF L6_Z01_FoH - Close Dry Wall	8	05-Jul-19	16-Jul-19	18-Oct-19 A	10-Jan-20	-148	100%	90%												
5797	CSF L6_Z01_FoH - Doors/Ironmong	12	29-Aug-19	04-Sep-19	28-Oct-19 A	15-Jan-20	-109	100%	55%												
5807	CSF L6_Z01_FoH - Perimeter Gypsum Block Wall Plaster/Skim Coat	6	04-Jul-19	12-Jul-19	28-Oct-19 A	08-Jan-20	-149	100%	85%												
5802	CSF L6_Z01_FoH - Ceiling & Column Sealer	2	10-Dec-18	11-Dec-18	02-Jan-20	03-Jan-20	-316	100%	0%												
6132	CSF L6_Z01_FoH - Close ceiling (panels)	8	07-Aug-19	31-Aug-19	04-Jan-20	13-Jan-20	-110	100%	0%												
6227	CSF L6_Z01_FoH - Glass Partition & Doors/Ironmong	6	02-Sep-19	07-Sep-19	04-Jan-20	10-Jan-20	-102	100%	0%												
6229	CSF L6_Z01_FoH - Roller Blind System Inst'n	9	02-Sep-19	11-Sep-19	03-Mar-20	12-Mar-20	-145	100%	0%												
5801	CSF L6_Z01_FoH - All Other Finishes / Make Good & Clean	12	20-Sep-19	04-Oct-19	06-Mar-20	19-Mar-20	-133	100%	0%												
5804	CSF L6_Z01_FoH - Floor Sealer	3	29-Aug-19	31-Aug-19	07-Mar-20*	11-Mar-20	-153	100%	0%												
<b>Corridors with Suspended Ceilings - CSF L6_Z02</b>																					
5808	CSF L6_Z02_Corr - MEP final fix	8	03-Aug-19	09-Aug-19	29-Jul-19 A	10-Jan-20	-127	100%	94.03%												
5814	CSF L6_Z02_Corr - Close ceiling (board) incl. Cut-Outs	6	19-Jul-19	26-Jul-19	14-Oct-19 A	08-Jan-20	-137	100%	85.02%												
5815	CSF L6_Z02_Corr - Ceiling & Wall (painting & sealer)	8	27-Jul-19	02-Aug-19	28-Oct-19 A	10-Jan-20	-133	100%	20%												
5817	CSF L6_Z02_Corr - All Other Finishes (DOOR) / Make Good & Clean	10	07-Aug-19	13-Aug-19	09-Dec-19 A	15-Jan-20	-128	100%	30.01%												
5816	CSF L6_Z02_Corr - Floor Sealer	3	03-Aug-19	06-Aug-19	10-Jan-20	13-Jan-20	-132	100%	0%												
<b>BOH (GL B'B'+; 5'-6' &amp; G.L. F, 4'+5'+) - CSF L6_Z03</b>																					
111134	CSF L6_Z03_BoH - Pantry PA2 & White Goods Installation	7			24-Mar-20	31-Mar-20		0%	0%												
6265	CSF L6_Z03_BoH - MEP Rms @ G.L. F MEP works (1st, 2nd & final fix)	6	25-Jul-19	21-Aug-19	22-Jul-19 A	08-Jan-20	-115	100%	92%												
5819	CSF L6_Z03_BoH - MEP final fix	8	17-Jul-19	23-Jul-19	29-Jul-19 A	10-Jan-20	-142	100%	92.03%												
5825	CSF L6_Z03_BoH - All Other Finishes (DOOR) / Make Good & Clean	12	29-Aug-19	04-Sep-19	23-Nov-19 A	15-Jan-20	-109	100%	70%												
5824	CSF L6_Z03_BoH - Floor Sealer	1	17-Jul-19	17-Jul-19	02-Jan-20	02-Jan-20	-140	100%	0%												
<b>AHU Room - CSF L6_Z04</b>																					
5833	CSF L6_Z04_AHU - MEP final fix incl. cladding/ insulation	8	10-Jul-19	26-Jul-19	29-Jul-19 A	10-Jan-20	-139	100%	87.99%												
5837	CSF L6_Z04_AHU - Wall Epoxy Paint	6	10-Jul-19	16-Jul-19	14-Oct-19 A	08-Jan-20	-146	100%	80%												
5842	CSF L6_Z04_AHU - Plaster on Foamglas Insulation	4	09-May-19	21-May-19	16-Oct-19 A	06-Jan-20	-190	100%	90%												
5839	CSF L6_Z04_AHU - All Other Finishes (DOOR) / Make Good & Clean	6	24-Jul-19	30-Jul-19	10-Dec-19 A	14-Jan-20	-139	100%	50.01%												
5838	CSF L6_Z04_AHU - Floor Sealer	2	17-Jul-19	18-Jul-19	09-Jan-20	10-Jan-20	-146	100%	0%												
<b>Toilets - CSF L6_Z05</b>																					
8787	CSF L6_Z05_Toilet - Conc flr curing, polishing & install protection	2	12-Aug-19	23-Sep-19	02-Sep-19 A	03-Jan-20	-84	100%	95%												
6145	CSF L6_Z05_Toilet - MEP final fix	12	03-Aug-19	09-Aug-19	23-Sep-19 A	15-Jan-20	-131	100%	68.02%												
6157	CSF L6_Z05_Toilet - Close Dry Wall	4	03-Jun-19	06-Jun-19	12-Nov-19 A	06-Jan-20	-176	100%	95.02%												
6140	CSF L6_Z05_Toilet - Close ceiling (board) incl. Cut-Outs	5	25-Jul-19	30-Jul-19	16-Nov-19 A	08-Jan-20	-134	100%	90%												
6149	CSF L6_Z05_Toilet - Cubicle partitions & sanitary ware & fittings	52	04-Oct-19	11-Oct-19	16-Nov-19 A	10-Mar-20	-120	100%	10%												
6139	CSF L6_Z05_Toilet - Ceiling Rods & Grids	4	06-Jul-19	10-Jul-19	02-Dec-19 A	06-Jan-20	-149	100%	60.01%												
6148	CSF L6_Z05_Toilet - Wall finishes (tiling)	8	24-Sep-19	03-Oct-19	02-Jan-20	10-Jan-20	-82	100%	0%												
6152	CSF L6_Z05_Toilet - Ceiling finishes final coat	3	31-Jul-19	02-Aug-19	08-Jan-20	10-Jan-20	-133	100%	0%												
6138	CSF L6_Z05_Toilet - All Other Finishes / Make Good & Clean	6	15-Oct-19	21-Oct-19	10-Mar-20	16-Mar-20	-117	100%	0%												
6137	CSF L6_Z05_Toilet - Door / Ironmong	2	12-Oct-19	14-Oct-19	11-Mar-20	12-Mar-20	-120	100%	0%												
<b>Terrace</b>																					
6174	CSF L6_Terrace - Precast Floor Concrete Pavers	6	03-Jun-19	10-Jun-19	02-Jan-20	08-Jan-20	-176	100%	0%												
6176	CSF L6_Terrace - S/S Grating for Surface Channel	6	11-Jun-19	17-Jun-19	09-Jan-20	15-Jan-20	-176	100%	0%												
<b>Level 7</b>																					
<b>ABWF &amp; MEP Works</b>																					
<b>FoH Areas (Storages, Offices, Lift Lobby etc) - CSF L7_Z01</b>																					
111133	CSF L7_Z01_FoH - Resin Floor System Installation	12			03-Mar-20	16-Mar-20		0%	0%												
11587	CSF L7_Z01_FoH - Lab Furniture & Loose Furniture Installation @ Paper Scroll & :	18			16-Apr-20	07-May-20		0%	0%												
6133	CSF L7_Z01_FoH - Ceiling Rods Setting Out & Inst'n	2	27-Aug-19	04-Sep-19	15-Jul-19 A	03-Jan-20	-99	100%	95.02%												
6134	CSF L7_Z01_FoH - Ceiling Grids incl. support frame for Glass Partition	6	08-Oct-19	16-Oct-19	19-Aug-19 A	08-Jan-20	-70	100%	80.02%												
5853	CSF L7_Z01_FoH - MEP final fix (* 2 shifts)	14	09-Nov-19	20-Nov-19	14-Oct-19 A	17-Jan-20	-48	100%	60%												
5856	CSF L7_Z01_FoH - Doors/Ironmong	6	11-Nov-19	16-Nov-19	14-Oct-19 A	08-Jan-20	-43	100%	60.01%												
5865	CSF L7_Z01_FoH - Perimeter Gypsum Block Wall	10	16-Sep-19	27-Sep-19	21-Oct-19 A	13-Jan-20	-88	100%	95%												
5866	CSF L7_Z01_FoH - Perimeter Gypsum Block Wall Plaster/Skim Coat	12	28-Sep-19	09-Oct-19	18-Nov-19 A	15-Jan-20	-82	100%	89.99%												
5859	CSF L7_Z01_FoH - Wall finishes (painting or sealer)	12	25-Oct-19	09-Nov-19	02-Dec-19 A	15-Jan-20	-55	100%	60%												
6135	CSF L7_Z01_FoH - Close ceiling (panels) incl. Cut-Outs	14	25-Oct-19	09-Nov-19	09-Jan-20	24-Jan-20	-63	100%	0%												
6228	CSF L7_Z01_FoH - Glass Partition & Doors/Ironmong	6	14-Nov-19	20-Nov-19	09-Jan-20	15-Jan-20	-46	100%	0%												
5863	CSF L7_Z01_FoH - Floor Sealer	3	11-Nov-19	13-Nov-19	03-Feb-20*	05-Feb-20	-63	100%	0%												
6160	CSF L7_Z01_FoH - Movable Partition & Cabinet	9	09-Sep-19	19-Sep-19	15-Feb-20	25-Feb-20	-125	100%	0%												



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
3942	CSF_LAN - Install irrigation system	25	23-Jan-20	28-Feb-20	02-Jan-20	07-Feb-20	18	0%	0%															
3944	CSF_LAN - Fill top soil	12	29-Feb-20	13-Mar-20	08-Feb-20	21-Feb-20	18	0%	0%															
3950	CSF_LAN - Soft Landscaping with drip feed system	21	14-Mar-20	08-Apr-20	22-Feb-20	17-Mar-20	18	0%	0%															
<b>Vertical Transportation</b>																								
<b>Lifts</b>																								
5488	CSF_LT-53 - Service lift (B2 - L7) - Lit Pit/Shaft/Machine Room MEP 1st/2nd/final fi	30	17-Sep-19	27-Nov-19	13-Nov-19 A	13-Feb-20	-58	100%	40%															
<b>Staircases</b>																								
<b>Staircase ST-51</b>																								
6169	CSF_ST51_GL_4F - Wall Dust Sealer	18	29-Apr-19	23-May-19	02-May-19 A	22-Jan-20	-202	100%	80%															
6172	CSF_ST51_GL_4F - All Other Finishes (DOOR) / Make Good & Clean	16	27-May-19	10-Jun-19	22-Jul-19 A	20-Jan-20	-186	100%	79.98%															
<b>Staircase ST-52</b>																								
6178	CSF_ST52_GL_B6 - Ceiling Dust Sealer	16	29-Mar-19	23-Apr-19	22-Jul-19 A	20-Jan-20	-225	100%	50%															
6181	CSF_ST52_GL_B6 - Wall Dust Sealer	18	11-May-19	04-Jun-19	23-Sep-19 A	23-Jan-20	-193	100%	50.01%															
6184	CSF_ST52_GL_B6 - All Other Finishes (DOOR) / Make Good & Clean	22	08-Jun-19	21-Jun-19	25-Nov-19 A	07-Feb-20	-185	100%	50.01%															
<b>Testing &amp; Commissioning</b>																								
<b>Wild Air Stage 1 - T&amp;C (1/F to 5/F) - Air Cooled Chillers</b>																								
3877	CSF_MEP_Wild_Air - FLOORS 1/F to 5/F - SAT	8	15-Jun-19	17-Jul-19	14-Oct-19 A	11-Jan-20	-149	100%	85%															
3875	CSF_MEP_Wild_Air - Chiller SAT Test	4	20-Apr-19	25-Apr-19	21-Oct-19 A	06-Jan-20	-211	100%	75.02%															
3879	CSF_MEP_Wild_Air - FLOORS 1/F to 5/F - Air Flow Test	6	23-Jul-19	31-Jul-19	23-Oct-19 A	10-Jan-20	-135	100%	90%															
3880	CSF_MEP_Wild_Air - FLOORS 1/F to 5/F - AHU Performance Test	10	01-Aug-19	07-Aug-19	23-Oct-19 A	14-Jan-20	-132	100%	74.99%															
3876	CSF_MEP_Wild_Air - Chiller Start Up	4	31-Jul-19	31-Jul-19	28-Oct-19 A	08-Jan-20	-133	100%	74.79%															
<b>Wild Air Stage 2 - T&amp;C (Balance) - DCS &amp; Air Cooled Chillers</b>																								
9738	CSF_MEP_Wild_Air - Hydro Test & Pipes Flushing w/ Water Sample Test	6	21-Sep-19	04-Nov-19	07-Nov-19 A	08-Jan-20	-54	100%	85%															
6324	CSF_MEP_Wild_Air - FLOORS GF & 6/F to 8/F - SAT	8	09-Oct-19	07-Nov-19	08-Nov-19 A	13-Jan-20	-55	100%	40%															
6325	CSF_MEP_Wild_Air - FLOORS GF & 6/F to 8/F - Start Up	12	08-Nov-19	14-Nov-19	25-Nov-19 A	16-Jan-20	-52	100%	39.99%															
6327	CSF_MEP_Wild_Air - FLOORS GF & 6/F to 8/F - AHU Performance Test	18	25-Nov-19	30-Nov-19	23-Dec-19 A	23-Jan-20	-44	100%	20%															
6326	CSF_MEP_Wild_Air - FLOORS GF & 6/F to 8/F - Air Flow Test	12	15-Nov-19	23-Nov-19	26-Dec-19 A	20-Jan-20	-47	100%	15%															
<b>Electrical &amp; Controls</b>																								
7688	CSF_POW - Lighting & Control T&C	4	19-Nov-19	02-Dec-19	29-Jul-19 A	09-Jan-20	-31	100%	90%															
7693	CSF_POW - Power & Distribution Insulation/Polarity Checks	18	29-Oct-19	25-Nov-19	29-Jul-19 A	24-Jan-20	-49	100%	95%															
7694	CSF_POW - Power & Distribution Functional Components Test	22	05-Nov-19	02-Dec-19	16-Sep-19 A	07-Feb-20	-49	100%	90%															
7700	CSF_POW - EIMSD Test Other Lifts w/ Permanent Power & Issue Cert.	32	28-Nov-19	28-Nov-19	23-Oct-19 A	18-Feb-20	-62	100%	70%															
7692	CSF_POW - BMS Systems Test	34	03-Dec-19	16-Dec-19	23-Nov-19 A	19-Feb-20	-47	100%	20%															
7685	CSF_POW - UPS T&C	12	12-Nov-19	25-Nov-19	06-Jan-20	18-Jan-20	-45	100%	0%															
7689	CSF_POW - IT Systems Test	12	19-Nov-19	02-Dec-19	17-Jan-20	07-Feb-20	-49	100%	0%															
7690	CSF_POW - AV Systems Test	12	03-Dec-19	16-Dec-19	08-Feb-20	21-Feb-20	-49	100%	0%															
<b>Fire Services</b>																								
7682	CSF_FS - FS Hydraulic Test Pipe Works	4	06-Sep-19	04-Nov-19	26-Aug-19 A	06-Jan-20	-52	100%	90%															
7698	CSF_FS - AFA Devices Loop & Functional Test	18	26-Nov-19	09-Dec-19	26-Aug-19 A	24-Jan-20	-38	100%	90%															
7695	CSF_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	16	15-Oct-19	25-Nov-19	23-Sep-19 A	22-Jan-20	-47	100%	92%															
7697	CSF_FS - Sprinkler System Test	18	05-Nov-19	18-Nov-19	21-Oct-19 A	23-Jan-20	-54	100%	95%															
7701	CSF_FS - Gas Flooding Test	8	11-Feb-20	24-Feb-20	28-Oct-19 A	17-Jan-20	25	0%	90%															
7699	CSF_FS - Genset Test	6	12-Nov-19	25-Nov-19	18-Nov-19 A	09-Jan-20	-37	100%	69.99%															
<b>RDE BUILDING</b>																								
<b>Construction</b>																								
<b>Initial Works, Establishment &amp; Miscellaneous</b>																								
14238f	RDE - Architectural Lightings Installation (C46)	12	10-Feb-20	22-Feb-20	01-Jun-20	13-Jun-20	-94	0%	0%															
9699	RDE_ABWF - Sealer/Screed MH16 opening L1-L5	30	25-Oct-19	28-Nov-19	13-Jan-20	24-Feb-20	-66	100%	0%															
9701	RDE_MEP - Minor MEP Works MH16 opening L1-L5	30	08-Nov-19	12-Dec-19	11-Feb-20	16-Mar-20	-72	100%	0%															
<b>Level GF</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Retail, Passenger Lift Lobbies &amp; Terrace) - RDE_GF_Z01</b>																								
4691	RDE_GF_Z01_FoH - MEP 1st fix (Part 1)	4	16-Jan-19	05-Mar-19	07-Jan-19 A	06-Jan-20	-254	100%	91.03%															
4692	RDE_GF_Z01_FoH - MEP 2nd fix	24	30-Sep-19	29-Oct-19	02-Sep-19 A	08-Feb-20	-79	100%	64.28%															
4691a	RDE_GF_Z01_FoH - MEP 1st fix (Part 2) Material Hoist Location	18			07-Jan-20	04-Feb-20		0%	0%															
4693	RDE_GF_Z01_FoH - MEP final fix	18	30-Oct-19	19-Nov-19	10-Feb-20	29-Feb-20	-79	100%	0%															
4746	RDE_GF_Z01_FoH - Glass Partition installation	26	05-Dec-19	11-Dec-19	27-Feb-20	27-Mar-20	-83	100%	0%															
4698	RDE_GF_Z01_FoH - Floor Sealer	5	20-Nov-19	25-Nov-19	02-Mar-20	06-Mar-20	-79	100%	0%															
4694	RDE_GF_Z01_FoH - All Other Finishes / Make Good & Clean	12	19-Nov-19	02-Dec-19	21-Mar-20	03-Apr-20	-97	100%	0%															
<b>BoH Plant Rooms, Corridors, FS &amp; Service Lift Lobbies - RDE_GF_Z02</b>																								
4686	RDE_GF_Z02_BoH - Wet Trades (plaster/screed/ceiling sealer/wall sealer/undercoat)	12	29-Dec-18	15-Jan-19	07-Jan-19 A	15-Jan-20	-298	100%	84.99%															
4680	RDE_GF_Z02_BoH - MEP 2nd fix	21	10-May-19	30-May-19	01-Apr-19 A	03-Feb-20	-199	100%	85.85%															
4682	RDE_GF_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	15	20-Feb-19	23-Feb-19	12-Aug-19 A	18-Jan-20	-273	100%	32.01%															
4679	RDE_GF_Z02_BoH - Seal Wall Opening	18	20-Feb-19	26-Feb-19	02-Sep-19 A	22-Jan-20	-274	100%	52.01%															
4681	RDE_GF_Z02_BoH - Door Frame & Plastering of Perimeter Edges	6	27-Feb-19	04-Mar-19	02-Oct-19 A	08-Jan-20	-257	100%	64.99%															
4677	RDE_GF_Z02_BoH - Misc Metal Works / Access Panels	49	31-May-19	06-Jun-19	01-Nov-19 A	10-Mar-20	-224	100%	42.01%															
4687	RDE_GF_Z02_BoH - Wall epoxy/ emulsion paint final coat	51	10-Jun-19	13-Jun-19	04-Nov-19 A	13-Mar-20	-222	100%	72.02%															
4675	RDE_GF_Z02_BoH - Door / Ironmong / Hose Reel Cabs	24	31-May-19	08-Jun-19	11-Nov-19 A	06-Feb-20	-195	100%	22%															
4684	RDE_GF_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	24	31-May-19	08-Jun-19	18-Nov-19 A	06-Feb-20	-195	100%	32.01%															
4685	RDE_GF_Z02_BoH - Floor sealer	52	13-Jun-19	14-Jun-19	25-Nov-19 A	14-Mar-20	-222	100%	55.01%															
4688	RDE_GF_Z02_BoH - MEP final fix	12	24-Sep-19	09-Oct-19	04-Feb-20	17-Feb-20	-103	100%	0%															
4676	RDE_GF_Z02_BoH - All Other Finishes / Make Good & Clean	12	02-Oct-19	16-Oct-19	20-Mar-20	02-Apr-20	-136	100%	0%															
<b>Level 1</b>																								
<b>ABWF &amp; MEP Works</b>																								
<b>FoH Areas (Retail, Passenger Lift Lobbies &amp; Terrace) - RDE_L1_Z01</b>																								
4736	RDE_L1_Z01_FoH - MEP 2nd fix	21	07-Nov-19	04-Dec-19	02-May-19 A	03-Feb-20	-43	100%	92.35%															
4735a	RDE_L1_Z01_FoH - MEP 1st fix (Part 2)	18			03-Jan-20*	23-Jan-20		0%	0%															
4737	RDE_L1_Z01_FoH - MEP final fix	18	05-Dec-19	26-Dec-19	04-Feb-20	24-Feb-20	-43	100%	0%															
4741	RDE_L1_Z01_FoH - Floor Sealer	4	27-Dec-19	31-Dec-19	25-Feb-20	28-Feb-20	-43	100%	0%															
10116	RDE_L1_Z01_FoH - Glass Partition installation	26			29-Feb-20	30-Mar-20		0%	0%		</													











ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020											
										2019			Qtr 1			Qtr 2			Qtr 3		
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
10008	RDE_L9_Z03_Toilet - Dry Wall Frame & One Side Board	16			11-Nov-19 A	21-Jan-20		0%	22%												
5941	RDE_L9_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	42	26-Oct-19	01-Nov-19	18-Nov-19 A	04-Mar-20	-97	100%	15%												
5938	RDE_L9_Z03_Toilet - Floor Screed	24	23-Apr-19	26-Apr-19	20-Nov-19 A	10-Feb-20	-233	100%	63.01%												
5935	RDE_L9_Z03_Toilet - MEP 2nd fix	40	25-Jul-19	07-Aug-19	28-Dec-19 A	25-Feb-20	-161	100%	3.69%												
5943	RDE_L9_Z03_Toilet - MEP 1st fix Dry Wall	8	19-Apr-19	27-Apr-19	22-Jan-20	07-Feb-20	-230	100%	0%												
10009	RDE_L9_Z03_Toilet - Dry Wall Closing Board	6			08-Feb-20	14-Feb-20		0%	0%												
5936	RDE_L9_Z03_Toilet - Door Frame	2	12-Jul-19	13-Jul-19	11-Feb-20	12-Feb-20	-171	100%	0%												
5934	RDE_L9_Z03_Toilet - Seal Wall Opening	3	29-Apr-19	02-May-19	15-Feb-20	18-Feb-20	-236	100%	0%												
5940	RDE_L9_Z03_Toilet - Finishes Walls & Floor Tiling	10	15-Oct-19	25-Oct-19	15-Feb-20	26-Feb-20	-97	100%	0%												
5932	RDE_L9_Z03_Toilet - Ceiling Rods/ Grids	4	20-Jul-19	24-Jul-19	19-Feb-20	22-Feb-20	-171	100%	0%												
5933	RDE_L9_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	08-Aug-19	15-Aug-19	26-Feb-20	04-Mar-20	-161	100%	0%												
5930	RDE_L9_Z03_Toilet - Door / Ironmong	2	02-Nov-19	04-Nov-19	05-Mar-20	06-Mar-20	-97	100%	0%												
5937	RDE_L9_Z03_Toilet - MEP final fix	6	26-Oct-19	01-Nov-19	05-Mar-20	11-Mar-20	-103	100%	0%												
5944	RDE_L9_Z03_Toilet - Ceiling finishes final coat	3	16-Aug-19	19-Aug-19	05-Mar-20	07-Mar-20	-161	100%	0%												
5931	RDE_L9_Z03_Toilet - All Other Finishes / Make Good & Clean	6	05-Nov-19	11-Nov-19	27-Mar-20	02-Apr-20	-114	100%	0%												
<b>Level 10</b>																					
<b>ABWF &amp; MEP Works</b>																					
<b>FoH Areas (Offices, Passenger Lift Lobbies &amp; Terrace) - RDE_10_Z01</b>																					
5985	RDE_L10_Z01_FoH - MEP 1st fix	16	14-Mar-19	25-Apr-19	17-Jun-19 A	21-Jan-20	-224	100%	90.28%												
5989	RDE_L10_Z01_FoH - Ceiling/Wall/Columns Sealer	4	01-Mar-19	06-Mar-19	01-Jul-19 A	06-Jan-20	-253	100%	36.01%												
5992	RDE_L10_Z01_FoH - Terrace Balustrade (base frame & glass)	6	16-Sep-19	21-Sep-19	15-Jul-19 A	08-Jan-20	-89	100%	90.02%												
5990	RDE_L10_Z01_FoH - Wall/Columns Protection	6	07-Mar-19	13-Mar-19	01-Aug-19 A	09-Jan-20	-250	100%	67.99%												
5986	RDE_L10_Z01_FoH - MEP 2nd fix	22	17-Aug-19	13-Sep-19	14-Oct-19 A	05-Feb-20	-112	100%	25.6%												
5987	RDE_L10_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	06-Feb-20	26-Feb-20	-105	100%	0%												
5991	RDE_L10_Z01_FoH - Floor Sealer	4	17-Oct-19	22-Oct-19	27-Feb-20	03-Mar-20	-105	100%	0%												
5988	RDE_L10_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	20-Mar-20	02-Apr-20	-126	100%	0%												
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L10_Z02</b>																					
5965	RDE_L10_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	12	15-Apr-19	30-Apr-19	06-May-19 A	15-Jan-20	-215	100%	72%												
5958	RDE_L10_Z02_BoH - MEP 1st fix	22	17-Jun-19	15-Jul-19	17-Jun-19 A	04-Feb-20	-163	100%	74.56%												
5961	RDE_L10_Z02_BoH - Door Frame & Plastering of Perimeter Edges	24	16-Jul-19	20-Jul-19	02-Oct-19 A	06-Feb-20	-160	100%	51.99%												
5959	RDE_L10_Z02_BoH - Seal Wall Opening	26	16-Jul-19	22-Jul-19	14-Oct-19 A	11-Feb-20	-163	100%	32.01%												
5960	RDE_L10_Z02_BoH - MEP 2nd fix	30	16-Jul-19	05-Aug-19	14-Oct-19 A	14-Feb-20	-154	100%	18.8%												
5957	RDE_L10_Z02_BoH - Misc Metal Works / Access Panels	48	06-Aug-19	12-Aug-19	15-Oct-19 A	10-Mar-20	-169	100%	43.01%												
5962	RDE_L10_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	24	16-Jul-19	19-Jul-19	15-Nov-19 A	07-Feb-20	-162	100%	25%												
5963	RDE_L10_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	32	06-Aug-19	09-Aug-19	21-Nov-19 A	18-Feb-20	-153	100%	12%												
5955	RDE_L10_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	17-Aug-19	24-Aug-19	15-Feb-20	22-Feb-20	-144	100%	0%												
5967	RDE_L10_Z02_BoH - MEP final fix	12	04-Nov-19	16-Nov-19	18-Feb-20	02-Mar-20	-82	100%	0%												
5966	RDE_L10_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	10-Aug-19	13-Aug-19	19-Feb-20	21-Feb-20	-153	100%	0%												
5964	RDE_L10_Z02_BoH - Floor sealer	2	13-Aug-19	14-Aug-19	21-Feb-20	22-Feb-20	-153	100%	0%												
5956	RDE_L10_Z02_BoH - All Other Finishes / Make Good & Clean	12	11-Nov-19	23-Nov-19	20-Mar-20	02-Apr-20	-103	100%	0%												
<b>Toilets - RDE_L10_Z03</b>																					
5984	RDE_L10_Z03_Toilet - MEP 1st fix Ceiling	19	17-Jun-19	11-Jul-19	14-Oct-19 A	24-Jan-20	-164	100%	34.53%												
5980	RDE_L10_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	46	07-Nov-19	13-Nov-19	18-Nov-19 A	10-Mar-20	-92	100%	15%												
5974	RDE_L10_Z03_Toilet - MEP 2nd fix	44	25-Jul-19	07-Aug-19	28-Dec-19 A	02-Mar-20	-166	100%	3.67%												
10010	RDE_L10_Z03_Toilet - Dry Wall Frame & One Side Board	12			14-Jan-20	04-Feb-20		0%	0%												
5982	RDE_L10_Z03_Toilet - MEP 1st fix Dry Wall	8	19-Apr-19	27-Apr-19	05-Feb-20	13-Feb-20	-235	100%	0%												
5977	RDE_L10_Z03_Toilet - Floor Screed	4	23-Apr-19	26-Apr-19	14-Feb-20	18-Feb-20	-240	100%	0%												
10011	RDE_L10_Z03_Toilet - Dry Wall Closing Board	6			14-Feb-20	20-Feb-20		0%	0%												
5975	RDE_L10_Z03_Toilet - Door Frame	2	12-Jul-19	13-Jul-19	19-Feb-20	20-Feb-20	-178	100%	0%												
5973	RDE_L10_Z03_Toilet - Seal Wall Opening	3	29-Apr-19	02-May-19	21-Feb-20	24-Feb-20	-241	100%	0%												
5979	RDE_L10_Z03_Toilet - Finishes Walls & Floor Tiling	10	26-Oct-19	06-Nov-19	21-Feb-20	21-Feb-20	-92	100%	0%												
5971	RDE_L10_Z03_Toilet - Ceiling Rods/ Grids	4	20-Jul-19	24-Jul-19	25-Feb-20	28-Feb-20	-176	100%	0%												
5972	RDE_L10_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	08-Aug-19	09-Aug-19	03-Mar-20	10-Mar-20	-171	100%	0%												
5976	RDE_L10_Z03_Toilet - MEP final fix	6	07-Nov-19	13-Nov-19	09-Mar-20	09-Mar-20	-96	100%	0%												
5969	RDE_L10_Z03_Toilet - Door / Ironmong	2	14-Nov-19	15-Nov-19	11-Mar-20	12-Mar-20	-92	100%	0%												
5983	RDE_L10_Z03_Toilet - Ceiling finishes final coat	3	10-Aug-19	13-Aug-19	11-Mar-20	13-Mar-20	-171	100%	0%												
5970	RDE_L10_Z03_Toilet - All Other Finishes / Make Good & Clean	6	16-Nov-19	22-Nov-19	27-Mar-20	02-Apr-20	-104	100%	0%												
<b>Level 11</b>																					
<b>ABWF &amp; MEP Works</b>																					
<b>FoH Areas (Offices, Passenger Lift Lobbies &amp; Terrace) - RDE_L11_Z01</b>																					
5124	RDE_L11_Z01_FoH - MEP 1st fix	12	09-Apr-19	21-May-19	17-Jun-19 A	15-Jan-20	-198	100%	88.95%												
5128	RDE_L11_Z01_FoH - Ceiling/Wall/Columns Sealer	3	26-Mar-19	30-Mar-19	01-Jul-19 A	04-Jan-20	-231	100%	82.02%												
5131	RDE_L11_Z01_FoH - Terrace Balustrade (base frame & glass)	6	16-Sep-19	21-Sep-19	15-Jul-19 A	08-Jan-20	-89	100%	90.02%												
5129	RDE_L11_Z01_FoH - Wall/Columns Protection	4	01-Apr-19	08-Apr-19	01-Aug-19 A	07-Jan-20	-227	100%	67.99%												
5125	RDE_L11_Z01_FoH - MEP 2nd fix	16	17-Aug-19	13-Sep-19	21-Oct-19 A	20-Jan-20	-105	100%	21.44%												
5126	RDE_L11_Z01_FoH - MEP final fix	18	24-Sep-19	16-Oct-19	21-Jan-20	18-Feb-20	-98	100%	0%												
5130	RDE_L11_Z01_FoH - Floor Sealer	4	17-Oct-19	22-Oct-19	19-Feb-20	24-Feb-20	-98	100%	0%												
5127	RDE_L11_Z01_FoH - All Other Finishes / Make Good & Clean	12	15-Oct-19	29-Oct-19	20-Mar-20	02-Apr-20	-126	100%	0%												
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L11_Z02</b>																					
5104	RDE_L11_Z02_BoH - Wet Trades (plaster/screed/C&W_sealer/undercoat)	10	06-May-19	21-May-19	03-Jun-19 A	13-Jan-20	-196	100%	72%												
5997	RDE_L11_Z02_BoH - MEP 1st fix	20	24-Jun-19	22-Jul-19	17-Jun-19 A	24-Jan-20	-155	100%	58.05%												
5100	RDE_L11_Z02_BoH - Door Frame & Plastering of Perimeter Edges	24	23-Jul-19	27-Jul-19	02-Oct-19 A	06-Feb-20	-154	100%	61.99%												
5996	RDE_L11_Z02_BoH - Misc Metal Works / Access Panels	42	13-Aug-19	19-Aug-19	15-Oct-19 A	10-Mar-20	-163	100%	48.01%												
1000	RDE_L11_Z02_BoH - MEP 2nd fix	34	23-Jul-19	12-Aug-19	21-Oct-19 A	18-Feb-20	-151	100%	14.57%												
5101	RDE_L11_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	24	23-Jul-19	26-Jul-19	21-Nov-19 A	06-Feb-20	-155	100%	22%												
5102	RDE_L11_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	36	20-Aug-19	23-Aug-19	27-Nov-19 A	21-Feb-20	-144	100%	12%												
5999	RDE_L11_Z02_BoH - Seal Wall Opening	6	23-Jul-19	29-Jul-19	03-Feb-20	08-Feb-20	-155	100%	0%												
5994	RDE_L11_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	17-Aug-19	24-Aug-19	19-Feb-20	26-Feb-20	-147	100%	0%												
5105	RDE_L11_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	24-Aug-19	27-Aug-19	22-Feb-20	25-Feb-20															



ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020										
										Qtr 1			Qtr 2			Qtr 3				
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
5149	RDE_L12_Z03_Toilet - Ceiling Rods/ Grids	4	27-Jul-19	31-Jul-19	02-Mar-20	05-Mar-20	-175	100%	0%											
5157	RDE_L12_Z03_Toilet - Finishes Walls & Floor Tiling	10	07-Sep-19	19-Sep-19	05-Mar-20	16-Mar-20	-142	100%	0%											
5152	RDE_L12_Z03_Toilet - MEP 2nd fix	12	01-Aug-19	14-Aug-19	06-Mar-20	19-Mar-20	-175	100%	0%											
5150	RDE_L12_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	15-Aug-19	22-Aug-19	20-Mar-20	20-Mar-20	-175	100%	0%											
5147	RDE_L12_Z03_Toilet - Door / Ironmong	2	27-Sep-19	28-Sep-19	24-Mar-20	25-Mar-20	-142	100%	0%											
5154	RDE_L12_Z03_Toilet - MEP final fix	6	24-Sep-19	30-Sep-19	28-Mar-20	03-Apr-20	-149	100%	0%											
5161	RDE_L12_Z03_Toilet - Ceiling finishes final coat	3	23-Aug-19	26-Aug-19	28-Mar-20	31-Mar-20	-175	100%	0%											
5148	RDE_L12_Z03_Toilet - All Other Finishes / Make Good & Clean	6	02-Oct-19	09-Oct-19	06-Apr-20	11-Apr-20	-149	100%	0%											
<b>Level 13</b>																				
<b>ABWF &amp; MEP Works</b>																				
<b>FoH Areas (Offices, Passenger Lift Lobbies &amp; Terrace) - RDE_L13_Z01</b>																				
5207	RDE_L13_Z01_FoH - Ceiling/Wall/Columns Sealer	5	28-May-19	01-Jun-19	02-Sep-19 A	07-Jan-20	-181	100%	78.02%											
5208	RDE_L13_Z01_FoH - Wall/Columns Protection	8	03-Jun-19	10-Jun-19	09-Sep-19 A	10-Jan-20	-178	100%	61.99%											
5203	RDE_L13_Z01_FoH - MEP 1st fix	18	11-Jun-19	23-Jul-19	16-Sep-19 A	22-Jan-20	-152	100%	56.98%											
5210	RDE_L13_Z01_FoH - Terrace Balustrade (base frame & glass)	32	18-Oct-19	24-Oct-19	02-Oct-19 A	17-Feb-20	-90	100%	80%											
5204	RDE_L13_Z01_FoH - MEP 2nd fix	24	18-Sep-19	17-Oct-19	23-Jan-20	27-Feb-20	-105	100%	0%											
5205	RDE_L13_Z01_FoH - MEP final fix	18	18-Oct-19	07-Nov-19	28-Feb-20	19-Mar-20	-105	100%	0%											
5206	RDE_L13_Z01_FoH - All Other Finishes / Make Good & Clean	12	06-Nov-19	20-Nov-19	20-Mar-20	02-Apr-20	-107	100%	0%											
5209	RDE_L13_Z01_FoH - Floor Sealer	4	08-Nov-19	13-Nov-19	20-Mar-20	25-Mar-20	-105	100%	0%											
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L13_Z02</b>																				
5182	RDE_L13_Z02_BoH - Wet Trades (plaster/screed/C&W sealer/undercoat)	18	28-May-19	13-Jun-19	02-Sep-19 A	22-Jan-20	-185	100%	72%											
5175	RDE_L13_Z02_BoH - MEP 1st fix	28	24-Jun-19	22-Jul-19	16-Sep-19 A	11-Feb-20	-163	100%	25.94%											
5176	RDE_L13_Z02_BoH - Seal Wall Opening	32	23-Jul-19	29-Jul-19	18-Nov-19 A	18-Feb-20	-163	100%	42.01%											
5174	RDE_L13_Z02_BoH - Misc Metal Works / Access Panels	46	13-Aug-19	19-Aug-19	20-Nov-19 A	10-Mar-20	-163	100%	42.01%											
5172	RDE_L13_Z02_BoH - Door / Ironmong / Hose Reel Cabs	42	18-Sep-19	25-Sep-19	25-Sep-19 A	06-Mar-20	-129	100%	22%											
5177	RDE_L13_Z02_BoH - MEP 2nd fix	18	23-Jul-19	12-Aug-19	12-Feb-20	03-Mar-20	-163	100%	0%											
5178	RDE_L13_Z02_BoH - Door Frame & Plastering of Perimeter Edges	5	23-Jul-19	27-Jul-19	12-Feb-20	17-Feb-20	-163	100%	0%											
5179	RDE_L13_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	4	23-Jul-19	26-Jul-19	12-Feb-20	15-Feb-20	-163	100%	0%											
5180	RDE_L13_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	4	20-Aug-19	23-Aug-19	04-Mar-20	07-Mar-20	-157	100%	0%											
5184	RDE_L13_Z02_BoH - MEP final fix	12	24-Sep-19	09-Oct-19	04-Mar-20	17-Mar-20	-128	100%	0%											
5183	RDE_L13_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	24-Aug-19	27-Aug-19	09-Mar-20	11-Mar-20	-157	100%	0%											
5181	RDE_L13_Z02_BoH - Floor sealer	2	27-Aug-19	28-Aug-19	11-Mar-20	12-Mar-20	-157	100%	0%											
5173	RDE_L13_Z02_BoH - All Other Finishes / Make Good & Clean	12	02-Oct-19	16-Oct-19	20-Mar-20	02-Apr-20	-136	100%	0%											
<b>Toilets - RDE_L13_Z03</b>																				
5202	RDE_L13_Z03_Toilet - MEP 1st fix Ceiling	34	24-Jun-19	18-Jul-19	11-Nov-19 A	18-Feb-20	-172	100%	7.99%											
5197	RDE_L13_Z03_Toilet - Cubicle partitions & sanitary ware & fittings	62	03-Oct-19	10-Oct-19	28-Dec-19 A	23-Mar-20	-132	100%	5%											
5194	RDE_L13_Z03_Toilet - Floor Screed	4	14-Jun-19	18-Jun-19	02-Jan-20*	06-Jan-20	-167	100%	0%											
10016	RDE_L13_Z03_Toilet - Dry Wall Frame & One Side Board	12			08-Feb-20	21-Feb-20		0%	0%											
5192	RDE_L13_Z03_Toilet - Door Frame	2	19-Jul-19	20-Jul-19	19-Feb-20	20-Feb-20	-172	100%	0%											
5200	RDE_L13_Z03_Toilet - MEP 1st fix Dry Wall	8	11-Jun-19	19-Jun-19	22-Feb-20	02-Mar-20	-207	100%	0%											
10017	RDE_L13_Z03_Toilet - Dry Wall Closing Board	6			03-Mar-20	09-Mar-20		0%	0%											
5190	RDE_L13_Z03_Toilet - Seal Wall Opening	3	20-Jun-19	22-Jun-19	10-Mar-20	12-Mar-20	-213	100%	0%											
5196	RDE_L13_Z03_Toilet - Finishes Walls & Floor Tiling	10	20-Sep-19	02-Oct-19	10-Mar-20	20-Mar-20	-136	100%	0%											
5188	RDE_L13_Z03_Toilet - Ceiling Rods/ Grids	4	27-Jul-19	31-Jul-19	13-Mar-20	17-Mar-20	-185	100%	0%											
5191	RDE_L13_Z03_Toilet - MEP 2nd fix	12	01-Aug-19	14-Aug-19	18-Mar-20	31-Mar-20	-185	100%	0%											
5186	RDE_L13_Z03_Toilet - Door / Ironmong	2	11-Oct-19	12-Oct-19	24-Mar-20	25-Mar-20	-132	100%	0%											
5189	RDE_L13_Z03_Toilet - Close ceiling (board) incl. Cut-Outs	7	15-Aug-19	22-Aug-19	01-Apr-20	09-Apr-20	-185	100%	0%											
5193	RDE_L13_Z03_Toilet - MEP final fix	6	03-Oct-19	10-Oct-19	10-Apr-20	16-Apr-20	-152	100%	0%											
5201	RDE_L13_Z03_Toilet - Ceiling finishes final coat	3	23-Aug-19	26-Aug-19	10-Apr-20	13-Apr-20	-185	100%	0%											
5187	RDE_L13_Z03_Toilet - All Other Finishes / Make Good & Clean	6	14-Oct-19	19-Oct-19	17-Apr-20	23-Apr-20	-150	100%	0%											
<b>Level 14</b>																				
<b>ABWF &amp; MEP Works</b>																				
<b>FoH Areas (Offices, Passenger Lift Lobbies &amp; Terrace) - RDE_L14_Z01</b>																				
5242	RDE_L14_Z01_FoH - MEP 1st fix	20	06-Jul-19	16-Aug-19	16-Sep-19 A	05-Feb-20	-136	100%	3%											
5246	RDE_L14_Z01_FoH - Ceiling/Wall/Columns Sealer	5	22-Jun-19	27-Jun-19	02-Jan-20*	07-Jan-20	-160	100%	0%											
5247	RDE_L14_Z01_FoH - Wall/Columns Protection	6	28-Jun-19	05-Jul-19	08-Jan-20	14-Jan-20	-160	100%	0%											
5244	RDE_L14_Z01_FoH - MEP final fix	18	08-Nov-19	28-Nov-19	05-Mar-20	25-Mar-20	-92	100%	0%											
5243	RDE_L14_Z01_FoH - MEP 2nd fix	7	11-Oct-19	07-Nov-19	09-Mar-20	09-Mar-20	-102	100%	0%											
5249	RDE_L14_Z01_FoH - Terrace Balustrade (base frame & glass)	6	08-Nov-19	14-Nov-19	17-Mar-20	23-Mar-20	-102	100%	0%											
5245	RDE_L14_Z01_FoH - All Other Finishes / Make Good & Clean	12	27-Nov-19	11-Dec-19	20-Mar-20	02-Apr-20	-89	100%	0%											
5248	RDE_L14_Z01_FoH - Floor Sealer	4	29-Nov-19	04-Dec-19	21-Mar-20	26-Mar-20	-89	100%	0%											
<b>BoH Plant Rooms, Corridors, FS Lift Lobby - RDE_L14_Z02</b>																				
5222	RDE_L14_Z02_BoH - Wet Trades (plaster/screed/C&W sealer/undercoat)	12	05-Aug-19	20-Aug-19	04-Nov-19 A	15-Jan-20	-122	100%	32%											
5215	RDE_L14_Z02_BoH - MEP 1st fix	18	02-Sep-19	30-Sep-19	11-Nov-19 A	22-Jan-20	-94	100%	10.11%											
5216	RDE_L14_Z02_BoH - Seal Wall Opening	24	02-Oct-19	09-Oct-19	18-Nov-19 A	06-Feb-20	-94	100%	12%											
5217	RDE_L14_Z02_BoH - MEP 2nd fix	18	02-Oct-19	23-Oct-19	21-Jan-20	18-Feb-20	-92	100%	0%											
5218	RDE_L14_Z02_BoH - Door Frame & Plastering of Perimeter Edges	5	02-Oct-19	08-Oct-19	23-Jan-20	05-Feb-20	-94	100%	0%											
5219	RDE_L14_Z02_BoH - Lobbies & Corr Ceiling Rods/ Grids	4	02-Oct-19	05-Oct-19	23-Jan-20	04-Feb-20	-94	100%	0%											
5220	RDE_L14_Z02_BoH - Lobbies & Corr Close ceiling (board) incl. Cut-Outs	4	31-Oct-19	04-Nov-19	19-Feb-20	22-Feb-20	-86	100%	0%											
5212	RDE_L14_Z02_BoH - Door / Ironmong / Hose Reel Cabs	7	24-Oct-19	31-Oct-19	24-Feb-20	02-Mar-20	-96	100%	0%											
5223	RDE_L14_Z02_BoH - Wall epoxy/ emulsion paint final coat	3	05-Nov-19	07-Nov-19	24-Feb-20	26-Feb-20	-86	100%	0%											
5224	RDE_L14_Z02_BoH - MEP final fix	12	04-Nov-19	16-Nov-19	25-Feb-20	09-Mar-20	-88	100%	0%											
5221	RDE_L14_Z02_BoH - Floor sealer	2	07-Nov-19	08-Nov-19	26-Feb-20	27-Feb-20	-86	100%	0%											
5214	RDE_L14_Z02_BoH - Misc Metal Works / Access Panels	6	24-Oct-19	30-Oct-19	07-Mar-20	13-Mar-20	-107	100%	0%											
5213	RDE_L14_Z02_BoH - All Other Finishes / Make Good & Clean	12	11-Nov-19	23-Nov-19	20-Mar-20	02-Apr-20	-103	100%	0%											
<b>Toilets - RDE_L14_Z03</b>																				
5238	RDE_L14_Z03_Toilet - Conc kerbs, steel posts & block wall	8	22-Jun-19	05-Jul-19	04-Nov-19 A	10-Jan-20	-157	100%	42%											
5235	RDE_L14_Z03_Toilet - W'proof/Testing & Protective Screed	7	05-Aug-19	12-Aug-19	07-Jan-20	14-Jan-20	-128	100%	0%											
5239	RDE_L14_Z03_Toilet - MEP 1st fix Block Wall	8	09-Aug-19	17-Aug-19	11-Jan-20	20-Jan-20	-128	100%	0%											
5234	RDE_L14_Z03_Toilet - Floor Screed	4	13-Aug-19	16-Aug-19	15-Jan-20															







ID	Activity	RD	BL Start	BL Finish	Fcast / Actual Start	Fcast / Actual Finish	BL Fin Var	Sch %	Curr %	2020														
										2019			Qtr 1			Qtr 2			Qtr 3					
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
<b>LT-55_FS Service Lift (B2-15MF)</b>																								
4566	RDE_LT-55_FS - Service lift (B2 - 15MF) - Lift Pit/Shaft/ MEP 1st/ 2nd/Final Fix	23	14-Oct-19	21-Dec-19	19-Oct-19 A	05-Feb-20	-30	100%	63%															
4566a	RDE_LT-55_FS - Service lift (B2 - 15MF) - LMR & remaining works	12	23-Dec-19	12-Feb-20	02-Jan-20*	15-Jan-20	17	19.44%	0%															
5010	RDE_LT-55_FS - Service lift (B2 - 15MF) - Temp. FS + lighting provisions	24	09-Dec-19	07-Jan-20	02-Jan-20	06-Feb-20	-19	79.17%	0%															
<b>Escalators</b>																								
<b>Escalators E-21 to E-24</b>																								
5367	RDE_E-21/E-22_GL_H/5-6_GF to 1/F - High Level MEP 1st/ 2nd/Final Fix/ABWV	17	22-Apr-19	20-May-19	16-Aug-19 A	21-Jan-20	-204	100%	30%															
5368	RDE_E-21/E-22_GL_H/5-6_GF to 1/F - Escalator Finishes (glazing, cladding, balus	24	13-Jun-19	11-Jul-19	24-Feb-20	21-Mar-20	-206	100%	0%															
5370	RDE_E-23/E-24_GL_H/5-6_1/F to 2/F - High Level MEP 1st/ 2nd/Final Fix/ABWV	17	22-Apr-19	20-May-19	16-Aug-19 A	21-Jan-20	-204	100%	30%															
5371	RDE_E-23/E-24_GL_H/5-6_1/F to 2/F - Escalator Finishes (glazing, cladding, balus	24	13-Jun-19	11-Jul-19	24-Feb-20	21-Mar-20	-206	100%	0%															
<b>Risers</b>																								
<b>Electrical Riser Duct - Main Power Distribution</b>																								
8894	RDE_Duct_D - Pull Cable from GF Coiled Up Cables thru Duct_RDE_D to RDE Lev	12	12-Aug-19	23-Sep-19	01-Jun-19 A	18-Jan-20	-97	100%	79.99%															
8905	RDE_Duct_D - Erect Scaffold @ Riser Duct GL_J 14/F to 15/MF	6	10-Sep-19	17-Sep-19	13-Jan-20	18-Jan-20	-102	100%	0%															
8906	RDE_Duct_D - Apply Sealer @ Riser Duct at GL_J 14/F to 15/MF	6	18-Sep-19	24-Sep-19	20-Jan-20	03-Feb-20	-102	100%	0%															
8907	RDE_Duct_D - Cable Containment through Ducts at GL_J 14/F to 15/MF MEP 1st f	12	25-Sep-19	10-Oct-19	04-Feb-20	17-Feb-20	-102	100%	0%															
8904	RDE_Duct_D - Pull Cable from 14/F Duct RDE_D_GL_G+3 to & thru Ducts at GLJ 1	12	11-Oct-19	24-Oct-19	18-Feb-20	02-Mar-20	-102	100%	0%															
<b>Staircases</b>																								
<b>ST-71</b>																								
4622	RDE_ST-71 - MEP 1st fix, 2nd fix	12	24-Dec-18	12-Feb-19	08-Apr-19 A	15-Jan-20	-280	100%	90%															
4628	RDE_ST-71 - All Other Finishes (DOOR) / Make Good & Clean	10	22-Mar-19	04-Apr-19	23-Sep-19 A	13-Jan-20	-234	100%	18.04%															
<b>ST-72</b>																								
4633	RDE_ST-72 - MEP 1st fix, 2nd fix	12	24-Dec-18	12-Feb-19	08-Apr-19 A	15-Jan-20	-280	100%	90%															
4638	RDE_ST-72 - All Other Finishes (DOOR) / Make Good & Clean	12	22-Mar-19	04-Apr-19	09-Jan-20	22-Jan-20	-242	100%	0%															
<b>ST-73</b>																								
4643	RDE_ST-73 - MEP 1st fix, 2nd fix	22	26-Aug-19	09-Oct-19	02-May-19 A	04-Feb-20	-92	100%	65%															
4642	RDE_ST-73 - Floor Screenshot	46	19-Aug-19	18-Sep-19	10-Jun-19 A	03-Mar-20	-132	100%	87.5%															
4645	RDE_ST-73 - Permanent Hand Rail	44	16-Oct-19	30-Oct-19	17-Jun-19 A	29-Feb-20	-96	100%	87.5%															
4646	RDE_ST-73 - Stair Nosing Tile	49	18-Oct-19	01-Nov-19	24-Jun-19 A	06-Mar-20	-99	100%	87.5%															
4648	RDE_ST-73 - All Other Finishes (DOOR) / Make Good & Clean	50	16-Nov-19	29-Nov-19	24-Jun-19 A	13-Mar-20	-81	100%	10%															
4641	RDE_ST-73 - Ceiling Dust Sealer	4	12-Aug-19	10-Sep-19	16-Sep-19 A	06-Jan-20	-96	100%	87.5%															
<b>ST-74</b>																								
4653	RDE_ST-74 - MEP 1st fix, 2nd fix	58	26-Aug-19	09-Oct-19	02-May-19 A	17-Mar-20	-128	100%	65%															
4652	RDE_ST-74 - Floor Screenshot	49	19-Aug-19	18-Sep-19	10-Jun-19 A	06-Mar-20	-135	100%	87.5%															
4655	RDE_ST-74 - Permanent Hand Rail	54	16-Oct-19	30-Oct-19	17-Jun-19 A	12-Mar-20	-106	100%	87.5%															
4656	RDE_ST-74 - Stair Nosing Tile	58	18-Oct-19	01-Nov-19	24-Jun-19 A	17-Mar-20	-108	100%	87.5%															
4658	RDE_ST-74 - All Other Finishes (DOOR) / Make Good & Clean	62	16-Nov-19	29-Nov-19	24-Jun-19 A	24-Mar-20	-90	100%	10%															
4651	RDE_ST-74 - Ceiling Dust Sealer	4	12-Aug-19	10-Sep-19	09-Sep-19 A	06-Jan-20	-96	100%	87.5%															
<b>Inter-Floor Stair L9 to L12</b>																								
4787	RDE_FoH - Inter-Floor Stair L9 to L12 - Installation Works	52	24-Nov-18	29-Nov-18	03-Feb-20	02-Apr-20	-396	100%	0%															
<b>Testing &amp; Commissioning</b>																								
<b>HVAC</b>																								
7645	RDE_MEP_Wild_Air - AHU SAT & LMOP SAT	26	20-Dec-19	21-Jan-20	07-Apr-20	07-May-20	-83	34.62%	0%															
7643	RDE_MEP_Wild_Air - Hydraulic Test (CWS/CWR) & Pipes Flushing w/ Water Sampl	24	06-Jan-20	10-Feb-20	18-Apr-20	16-May-20	-81	0%	0%															
7646	RDE_MEP_Wild_Air - Start Up AHU @ Each Level	12	22-Jan-20	12-Feb-20	08-May-20	21-May-20	-83	0%	0%															
7647	RDE_MEP_Wild_Air - Air Flow Test	24	13-Feb-20	11-Mar-20	22-May-20	18-Jun-20	-83	0%	0%															
7648	RDE_MEP_Wild_Air - AHU Performance Test	12	12-Mar-20	25-Mar-20	19-Jun-20	04-Jul-20	-83	0%	0%															
7651	RDE_MEP_Wild_Air - Air System Balancing	36	26-Mar-20	27-Jun-20	06-Jul-20	15-Aug-20	-41	0%	0%															
<b>Electrical &amp; Controls</b>																								
2129	RDE_POW - Test FSD Lifts with Permanent Power	3	20-Jan-20	20-Jan-20	16-Mar-20	18-Mar-20	-44	0%	0%															
7660	RDE_POW - Power & Distribution Insulation/Polarity Checks	36	24-Dec-19	13-Feb-20	16-Apr-20	28-May-20	-88	16.67%	0%															
7662	RDE_POW - Power & Distribution Functional Components Test	36	09-Jan-20	27-Feb-20	30-Apr-20	11-Jun-20	-88	0%	0%															
7656	RDE_POW - Lighting & Control T&C	24	14-Feb-20	12-Mar-20	12-Mar-20	29-May-20	-88	0%	0%															
7659	RDE_POW - BMS Systems Test	24	14-Feb-20	12-Mar-20	29-May-20	26-Jun-20	-88	0%	0%															
7653	RDE_POW - UPS T&C	12	28-Feb-20	12-Mar-20	12-Jun-20	26-Jun-20	-88	0%	0%															
7657	RDE_POW - IT Systems Test	12	28-Feb-20	12-Mar-20	12-Jun-20	26-Jun-20	-88	0%	0%															
7658	RDE_POW - AV Systems Test	12	28-Feb-20	12-Mar-20	12-Jun-20	26-Jun-20	-88	0%	0%															
<b>Plumbing &amp; Drainage</b>																								
7649	RDE_P&D - Hydraulic Tests P&D	48	15-Nov-19	11-Jan-20	30-Dec-19 A	05-May-20	-89	81.25%	10%															
7649a	RDE_P&D - Equipment Test & Pumps Rotation Checks	24			07-Apr-20	05-May-20		0%	0%															
<b>Fire Services</b>																								
7650	RDE_FS - FS Hydraulic Test Pipe Works	90	29-Nov-19	11-Jan-20	21-Nov-19 A	29-Apr-20	-85	75%	40%															
7663	RDE_FS - FS Power & Controls Insulation/Continuity/Polarity Checks	36	24-Dec-19	13-Feb-20	11-Apr-20	23-May-20	-84	16.67%	0%															
7665	RDE_FS - Sprinkler System Test	24	16-Jan-20	20-Feb-20	30-Apr-20	28-May-20	-82	0%	0%															
7666	RDE_FS - AFA Devices Loop & Functional Test	24	23-Jan-20	27-Feb-20	07-May-20	03-Jun-20	-81	0%	0%															
7667	RDE_FS - Genset Test	12	07-Feb-20	20-Feb-20	11-May-20	23-May-20	-78	0%	0%															
<b>EXTERNAL WORKS</b>																								
<b>Construction</b>																								
<b>IPA - Portion 1</b>																								
4275	EXT_Port1 - EVA granite brett paving finishing (Defer start date to use as Temp Hau	18	01-Aug-19	28-Aug-19	03-Feb-20*	22-Feb-20	-141	100%	0%															
<b>IPA - Portion 4</b>																								
4307	EXT_Port4 - EVA granite brett paving	20	01-Aug-19	28-Aug-19	16-Sep-19 A	24-Jan-20	-123	100%	40%															
<b>Along Buildings boundary</b>																								
4263	EXT_ABB - Gas Main (along RDE/CSF bldg)	3	02-Nov-19	02-Dec-19	09-Sep-19 A	04-Jan-20	-27	100%	95%															
4268	EXT_ABB - Construct Drainage slot & outlet along footpath	36	22-Oct-19	02-Dec-19	03-Feb-20*	14-Mar-20	-80	100%	0%															
4269	EXT_ABB - Reinstatement of footpath w/ U channel	36	03-Dec-19	15-Jan-20	17-Feb-20*	28-Mar-20	-56	66.67%	0%															
4267	EXT_ABB - Construct new road Junct. w/ sprinkler pipes/FTNS	20	16-Aug-19	12-Sep-19	16-Sep-19 A	24-Jan-20	-110	100%	80%															
4266	EXT_ABB - Ext'l storm drainage (along M+ & Lyric Theatre)	32	11-Sep-19	25-Oct-19	16-Sep-19 A	15-Feb-20	-88	100%	90%															
4264	EXT_ABB - Pump cell modification (Elements cooling mains access & vent shaft)	12	31-Dec-18	21-Jan-19	16-Sep-19 A	15-Jan-20	-293	100%	90%															
5003	EXT_ABB - (M+/11+ & A-M+/6'-1 Lay granite brett paving	44	29-Aug-19	23-Nov-19	17-Oct-19 A	29-Feb-20	-75	100%	30%															
5001	EXT_ABB - A-M+/13+14+ Lay and compact sub-base	32	29-Mar-19	27-Jun-19	22-Nov-19 A	15-Feb-20																		

**L1**

Activity ID	Activity Name	Start Date	Finish Date	2020			
				Jan 25	Feb 26	Mar 27	Apr 28
<b>L1 Contract for Lyric Theatre Complex (3MRP)</b>							
<b>Cost Centre B - Excavation and Lateral Support (ELS) Stage 2</b>							
<b>Excavation and ELS Works (Stage 2)</b>							
CB161030	[South - Area 1 & 2] Excavate South / West Soil Berm to -12.4mPD (18,145 cu.m)	27-Nov-19 A	14-Feb-20				
CB161040	[South - Area 1 & 2] Pile Head Treatment at South / West (22 nr BP)	12-Dec-19 A	28-Feb-20				
CB161060	[South - Area 1 & 2] Excavate East Soil Berm to -12.0mPD (9,750 cu.m)	23-Jan-20 A	04-Mar-20				
CB161070	[South - Area 1 & 2] Install 6th Layer of Strut S6	20-Feb-20	11-Mar-20				
CB161100	[South - Area 1 & 2] Excavate East Berm to Formation Level -14.2mPD (4,750 cu.m)	05-Mar-20	25-Mar-20				
CB161200	[South - Area 1 & 2] Pile Head Treatment at East (14 nr BP)	16-Mar-20	06-Apr-20				
CB161210	[South/North] BA14 Completion of ELS - BD Submission & Acknowledgement	25-Mar-20	31-Mar-20				
<b>Cost Centre C - Basement</b>							
<b>Cost Centre C1 - Essential Basement Structure (Excl. AET Protection &amp; Box Culvert)</b>							
CC100210	[South - L01] Blinding Layer for Pile Cap / B2 Slab at South / West	04-Dec-19 A	06-Mar-20				
CC100220	[South - L01] Construct South / West Pile Cap / B2 Slab at -12.4mPD	12-Dec-19 A	27-Mar-20				
CC100290	[South - L01] Blinding Layer for Pile Cap / B2 Slab at East	30-Mar-20	16-Apr-20				
CC100300	[South - L01] Construct East Pile Cap / B2 Slab at -14.2mPD	01-Apr-20	09-May-20				
CC100305	[South/North] BA14 Completion of Pile Cap - BD Submission & Acknowledgement	11-May-20	16-May-20				
CC100400	[South - L01] Remove Strut Layer S6 & S4	21-Apr-20	27-May-20				
CC100420	[South - L01] Construct Central B2-B1 Columns & Structural Walls	02-Oct-19 A	28-Feb-20				
CC100440	[South - L01] Construct Central B1 Beam & Slab	04-Dec-19 A	20-Mar-20				
CC100510	[South - L01] Construct B1-B1M Central Columns & Structural Walls	29-Feb-20	22-Apr-20				
CC100520	[South - L01] Construct B1M Central Beam & Slab	21-Mar-20	15-May-20				
CC100560	[South - L01] Construct B1M-GF Central Columns & Structural Walls	23-Apr-20	12-Jun-20				
CC101600	[North - L04] Remove Strut Layer S4	07-Dec-19 A	11-Feb-20				
CC101700	[North - L04] Construct B2-B1 Columns & Structural Walls	07-Nov-19 A	10-Mar-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

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**West Kowloon Cultural District Authority**  
**L1 Contract for Lyric Theatre Complex & Extended Basement**  
**Three Month Rolling Programme (3MRP) - Status as of 31 Jan 2020**



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Jan 25	Feb 26	Mar 27	Apr 28
CC101780	[North - L04] Construct B1 Beam & Slab	02-Jan-20 A	16-Apr-20	[Gantt bar: Jan 25 to Apr 28]			
CC102420	[Area 6 - L06] Construct B1-B1M Columns & Structural Walls	10-Dec-18 A	07-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
CC102430	[Area 6 - L06] Construct B1M Beam & Slab	14-Jan-19 A	14-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
CC102510	[Area 6 - L06] Construct B1M-GF Columns & Structural Walls	13-May-19 A	19-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
<b>Cost Centre D - Public Infrastructure Works (PIW)</b>							
<b>Cost Centre D2 - Austin Road West Lay-by</b>							
<b>Cost Centre D2.1 Roadworks and Remaining</b>							
<b>MC30-Ch.170 to MC30-Ch.150</b>							
CD210730	MC30-Ch170-150: Roadworks & Footpath	30-Jan-19 A	20-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
CD210750	MC30-Ch170-150: Install Street Furniture & Lighting	21-Feb-20	12-Mar-20	[Gantt bar: Feb 26 to Mar 27]			
<b>MC30-Ch.150 to MC30-Ch.100</b>							
CD210630	MC30-Ch150-100: Roadworks & Footpath	13-Feb-19 A	27-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
CD210650	MC30-Ch150-100: Install Street Furniture & Lighting	13-Mar-20	02-Apr-20	[Gantt bar: Mar 27 to Apr 28]			
<b>MC30-Ch.100 to MC30-Ch.50</b>							
CD210530	MC30-Ch100-50: Roadworks & Footpath	11-Jul-19 A	27-Feb-20	[Gantt bar: Jan 25 to Feb 26]			
CD210535	MC30-Ch100-50: Maintenance Staircase	07-Feb-20	27-Feb-20	[Gantt bar: Feb 26 to Feb 26]			
CD210550	MC30-Ch100-50: Install Street Furniture & Lighting	03-Apr-20	28-Apr-20	[Gantt bar: Apr 28 to Apr 28]			
<b>MC30-Ch.50 to MC30-Ch.00</b>							
CD210420	MC30-Ch50-00: DN450 Freshwater (0+64 - 0+14)	14-Mar-19 A	02-Mar-20	[Gantt bar: Jan 25 to Feb 26]			
CD210425	MC30-Ch50-00: DN450 Salt Water (0+062 - 0+12)	14-Mar-19 A	02-Mar-20	[Gantt bar: Jan 25 to Feb 26]			
CD210430	MC30-Ch50-00: Roadworks & Footpath	11-Mar-20	02-May-20	[Gantt bar: Mar 27 to Apr 28]			
<b>MC20-Ch.140 to MC20-Ch.100</b>							
CD210310	MC20-Ch140-100: Road Drainage (WL1.12 to WL1.9)	06-Jun-19 A	09-Mar-20	[Gantt bar: Jan 25 to Feb 26]			
CD210320	MC20-Ch140-100: DN450 Freshwater (0+14 - 0+00)	10-Mar-20	23-Mar-20	[Gantt bar: Mar 27 to Mar 27]			
CD210325	MC20-Ch140-100: DN450 Salt Water (0+12 - 0+00)	10-Mar-20	23-Mar-20	[Gantt bar: Mar 27 to Mar 27]			

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

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**West Kowloon Cultural District Authority**  
**L1 Contract for Lyric Theatre Complex & Extended Basement**  
**Three Month Rolling Programme (3MRP) - Status as of 31 Jan 2020**



Activity ID	Activity Name	Start Date	Finish Date	2020			
				Jan 25	Feb 26	Mar 27	Apr 28
<b>Cost Centre D2.2 Drainage</b>							
<b>MC20-Ch.140 to MC20-Ch.00</b>							
CD220190	MC20-Ch140-00: 1800mm dia Drainage (SF1.1 to SF1.1B) - 30m	02-Jul-19 A	11-Feb-20				
<b>Cost Centre E - Miscellaneous Works</b>							
<b>Cost Centre E2 - External Utilities</b>							
<b>Cost Centre E2.1 - External Utilities - Drainage</b>							
CE210310	N: Install 450mm dia Storm Drainage (DMH1.7 to DMH1.2) - 49m	22-Nov-19 A	25-Jan-20 A				
CE210320	N: Install 600mm dia Storm Drainage (DMH1.2 to DMH1.2A) - 21m	26-Jan-20 A	06-Mar-20				
CE210330	N: Install 300mm dia Storm Drainage (DMH1.5 to DMH1.2) - 5m	07-Mar-20	20-Mar-20				
CE210340	N: Install 450mm dia Storm Drainage (DMH1.1 to DMH1.2) - 3m	07-Mar-20	20-Mar-20				
CE210510	N: Install 300mm dia Sewerage (SMH1.2 to F1.2) - 9m	27-Feb-20	18-Mar-20				
CE210520	N: Install 300mm dia Sewerage (SMH1.3 to SMH1.3A) - 20m	19-Mar-20	09-Apr-20				
CE210530	N: Install 300mm dia Sewerage (SMH1.3A to F1.3) - 12m	14-Apr-20	06-May-20				

- Remaining Work
- Critical Remaining Work
- Actual Work
- Milestone

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**West Kowloon Cultural District Authority**  
**L1 Contract for Lyric Theatre Complex & Extended Basement**  
**Three Month Rolling Programme (3MRP) - Status as of 31 Jan 2020**



**L2**



# Mark up Rolling Programme (as of 10 Jan 2020)

Work Item	2019												2020			
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
1 Visual Mock Up																
a) Material and shop drawing submission & approval																
b) Identify Location, Install VMU, Inspection/ Approval																
2 PTMD and CPMD Compliance Review																
3 Major E&M Submissions																
a) Submission of CSD & CBWD LTC																
4 DfMA Development (MEP Module)																
a) DfMA Development - LB2																
b) DfMA Development - LB1 and LB1M																
5 Main Contractor's Design Item																
a) Façade shop drawings submission/ resubmission																
b) Stage Lighting Design Coordination																
c) AV Design Coordination																
d) Stage Machinery Design Coordination																
6 MT Steel Truss Shop Drawings Submission and Approval																
7 LTC Construction																
Apply Waterproofing																
VIS Installation																
B2 Construction																
B2U/F and B1L/F Construction																
8 Extended Basement																
Builder's Works in Extended Basement (South)																
BS Installation (South B2)																
9 DCS Cofferdam A																
DCS Cofferdam A - Section 1																
DCS Cofferdam A - Section 2																
10 Remaining Works for M+ Promenade																
11 Modification to Existing Pump Cell																
Reprovision of Sea Water Pump Cell																

- Note**
- VMU:** Delayed pending for design and material finalisation. VMU completion deadline moved by agreement.
  - MEP:** Shop drawings submission dependent on resolution of BIM coordination issues and CAI issues.
  - DfMA:** Delay due to CAI-026, CAI-031, L1 CAI-074 and L1 CAI-077.
  - Façade:** Delay due to unfrozen design and design changes.
  - DCS, Remaining Works for M+ Promenade, Reprovision of Pump Cell:** Delay due to absence of site possession.



## **C. Action and Limit Levels for Construction Phase**

## Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring station are presented in following tables:

**Table C-1: Action and Limit Levels for 1-hour TSP**

Monitoring Station	Action Level (mg/m <sup>3</sup> )	Limit Level (mg/m <sup>3</sup> )
AM1	273.7	500
AM2B	274.2	500

**Table C-2: Action and Limit Levels for 24-hour TSP**

Monitoring Station	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )
AM1	143.6	260
AM2B	151.1	260

## Noise

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

**Table C-3: Action and Limit Levels for Construction Noise**

Time Period & Monitoring Locations	Action Level	Limit Level
NM1A 0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)

## **D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact**

## Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

**Table D-1: Event and Action Plan for Air Quality**

Event	Action			
	ET	IEC	WKCD	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform IEC and WKCD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and WKCD;</li> <li>3. Advise the WKCD on the effectiveness of the proposed remedial measures;</li> <li>4. Repeat measurements to confirm findings;</li> <li>5. Increase monitoring frequency to daily;</li> <li>6. Discuss with IEC and Contractor on remedial actions required;</li> <li>7. If exceedance continues, arrange meeting with IEC and WKCD;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>5. Monitor the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial to WKCD within three working days of notification;</li> <li>2. Implement the agreed proposals;</li> <li>3. Amend proposal if appropriate.</li> </ol>
<b>Limit Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform WKCD, Contractor and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the WKCD on the effectiveness of the proposed remedial measures;</li> <li>5. Monitor the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend proposal if appropriate.</li> </ol>

**Event****Action**

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2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"><li>1. Notify IEC, WKCDA, Contractor and EPD;</li><li>2. Identify source;</li><li>3. Repeat measurement to confirm findings;</li><li>4. Increase monitoring frequency to daily;</li><li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li><li>6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken;</li><li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;</li><li>8. If exceedance stops, cease additional monitoring.</li></ol>	<ol style="list-style-type: none"><li>1. Check monitoring data submitted by ET;</li><li>2. Check Contractor's working method;</li><li>3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions;</li><li>4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly;</li><li>5. Monitor the implementation of remedial measures.</li></ol>	<ol style="list-style-type: none"><li>1. Confirm receipt of notification of failure in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree on the remedial measures to be implemented;</li><li>4. Ensure remedial measures properly implemented;</li><li>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li></ol>	<ol style="list-style-type: none"><li>1. Take immediate action to avoid further exceedance;</li><li>2. Submit proposals for remedial actions to IEC within three working days of notification;</li><li>3. Implement the agreed proposals;</li><li>4. Resubmit proposals if problem still not under control;</li><li>5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.</li></ol>
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## Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

**Table D-2: Event and Action Plan for Construction Noise**

Event	Action			
	ET	IEC	WKCD	Contractor
Action Level	<ol style="list-style-type: none"> <li>1. Notify WKCD, IEC and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, WKCD and Contractor;</li> <li>4. Discuss with the IEC and Contractor on remedial measures required;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the investigation results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the WKCD accordingly;</li> <li>3. Advise the WKCD on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC and WKCD;</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Inform IEC, WKCD, Contractor and EPD;</li> <li>2. Repeat measurements to confirm findings;</li> <li>3. Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contractor's working procedures;</li> <li>6. Discuss with the IEC, Contractor and WKCD on remedial measures required;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCD informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst WKCD, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCD accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</li> <li>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and WKCD within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the WKCD until the exceedance is abated.</li> </ol>

## Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

**Table D-3: Event and Action Plan for Landscape and Visual Impact**

Event	Action			
	ET	IEC	WKCD A	Contractor
Design Check	<ol style="list-style-type: none"> <li>1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report;</li> <li>2. Prepare and submit report.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check report submitted by ET;</li> <li>2. Recommend remedial design if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Undertake remedial design if necessary.</li> </ol>	-
Non-conformity on one occasion	<ol style="list-style-type: none"> <li>1. Identify source of non-conformity;</li> <li>2. Report to IEC and WKCD A;</li> <li>3. Discuss remedial actions with IEC, WKCD A and Contractor;</li> <li>4. Monitor remedial actions until rectification has been completed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check and verify source of non-conformity;</li> <li>2. Discuss remedial actions with ET and Contractor;</li> <li>3. Advise WKCD A on effectiveness of proposed remedial actions;</li> <li>4. Check implementation of remedial actions.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Ensure remedial actions are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working method as necessary;</li> <li>2. Rectify damage and undertake necessary replacement and remedial actions.</li> </ol>
Repeated conformity	<ol style="list-style-type: none"> <li>1. Identify source of non-conformity;</li> <li>2. Report to IEC and WKCD A;</li> <li>3. Increase monitoring frequency;</li> <li>4. Discuss remedial actions with IEC, WKCD A and Contractor;</li> <li>5. Monitor remedial actions until rectification has been completed;</li> <li>6. If non-conformity rectified, reduce monitoring frequency back to normal.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check and verify source of non-conformity;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss remedial actions with ET and Contractor;</li> <li>4. Advise WKCD A on effectiveness of proposed remedial actions;</li> <li>5. Supervise implementation of remedial actions.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor;</li> <li>2. Ensure remedial actions are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working method as necessary;</li> <li>2. Rectify damage and undertake necessary replacement and remedial actions.</li> </ol>

## E. Monitoring Schedule



# JANUARY 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3 Lyric Landscape & Visual Inspection	4 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring
5	6	7 M+ Landscape & Visual	8	9	10 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	11
12	13	14	15 Lyric Landscape & Visual Inspection	16 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	17	18
19	20	21 M+ Landscape & Visual	22 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	23	24 AM1, AM2B - 24hrTSP, 1hr TSP x3	25
26	27	28	29	30 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	31 Lyric Landscape & Visual Inspection	
<p><b>Notes:</b>  <b>AM1 - International Commerce Centre (ICC)</b>  <b>AM2B - 1st Floor of Gammon's Site Office</b>  <b>NM1A - International Commerce Centre (ICC)</b></p>						

# FEBRUARY 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6	7	8
9	10	11 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	12	13	14	15
16	17 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	18	19	20	21	22 AM1, AM2B - 24hrTSP, 1hr TSP x3
23	24	25	26	27	28 AM1, AM2B - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	29
		<b>Notes:</b> <b>AM1 - International Commerce Centre (ICC)</b> <b>AM2B - 1st Floor of Gammon's Site Office</b> <b>NM1A - International Commerce Centre (ICC)</b>				

## F. Calibration Certifications

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM1(ICC)  
 Calibrated by : K.T.Ho  
 Date : 04/12/2019

Sampler

Model : TE-5170  
 Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023  
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	11.4	3.428	1.669	58	58.88
2   13 holes	8.5	2.960	1.443	46	46.70
3   10 holes	6.6	2.608	1.274	42	42.64
4   7 holes	4.6	2.177	1.066	30	30.46
5   5 holes	2.8	1.699	0.834	18	18.27

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 47.795                      Intercept(b): -20.702                      Correlation Coefficient(r): 0.9951

Checked by:   
 Magnum Fan

Date: 07/12/2019

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM1 (ICC)  
 Calibrated by : K.T.Ho  
 Date : 20/01/2020

Sampler

Model : TE-5170  
 Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

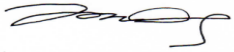
Pa (hpa) : 1019  
 Ta(K) : 293

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	11.2	3.385	1.649	58	58.67
2   13 holes	8.2	2.896	1.413	50	50.57
3   10 holes	6.2	2.519	1.230	42	42.48
4   7 holes	4.4	2.122	1.039	32	32.37
5   5 holes	2.6	1.631	0.802	20	20.23

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 45.930                      Intercept(b): -15.468                      Correlation Coefficient(r): 0.9960

Checked by:   
 \_\_\_\_\_  
 Magnum Fan

Date: 21/01/2020

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM2B (Gammon Office)  
 Calibrated by : K.T.Ho  
 Date : 20/11/2019

Sampler

Model : TE-5170  
 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition


Pa (hpa) : 1023  
 Ta(K) : 292

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.6	3.604	1.754	62	62.94
2   13 holes	9.4	3.113	1.517	50	50.76
3   10 holes	7.2	2.724	1.330	40	40.61
4   7 holes	4.6	2.177	1.066	34	34.52
5   5 holes	3.0	1.758	0.863	22	22.33

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \sqrt{Pa/Pstd)(Tstd/Ta)}$

Sampler Calibration Relationship

Slope(m): 47.432      Intercept(b): -18.850      Correlation Coefficient(r): 0.9950

Checked by:   
 Magnum Fan

Date: 23/11/2019

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AM2B (Gammon Office)  
 Calibrated by : K.T.Ho  
 Date : 20/01/2020

Sampler

Model : TE-5170  
 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 25 February 2019  
 Slope (m) : 2.07076  
 Intercept (b) : -0.02917  
 Correlation Coefficient(r) : 1.00000

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

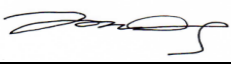
Pa (hpa) : 1019  
 Ta(K) : 293

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.4	3.562	1.734	62	62.71
2   13 holes	9.0	3.034	1.479	56	56.64
3   10 holes	6.4	2.559	1.250	46	46.53
4   7 holes	4.2	2.073	1.015	32	32.37
5   5 holes	2.2	1.500	0.739	22	22.25

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 42.777      Intercept(b): -9.089      Correlation Coefficient(r): 0.9910

Checked by:   
 \_\_\_\_\_  
 Magnum Fan

Date: 21/01/2020



RECALIBRATION

DUE DATE:

February 25, 2020

# Certificate of Calibration

## Calibration Certification Information

Cal. Date: February 25, 2019      Rootsmeter S/N: 438320      Ta: 294      °K  
 Operator: Jim Tisch      Pa: 762.0      mm Hg  
 Calibration Model #: TE-5025A      Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

## Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569
<b>QSTD</b>	<b>m= 2.07076</b>		<b>QA</b>	<b>m= 1.29667</b>	
	<b>b= -0.02917</b>			<b>b= -0.01797</b>	
	<b>r= 1.00000</b>			<b>r= 1.00000</b>	

## Calculations

$Vstd = \Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	$Va = \Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
$Qstd = Vstd / \Delta Time$	$Qa = Va / \Delta Time$
For subsequent flow rate calculations:	
$Qstd = 1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	$Qa = 1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

## Standard Conditions

Tstd:	298.15 °K
Pstd:	760 mm Hg
<b>Key</b>	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

## RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30





## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

### SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: <b>HK1907876</b>
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 22-FEB-2019
		DATE OF ISSUE	: 7-MAR-2019
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

#### General Comments

- Sample(s) were received in ambient condition.
- Sample(s) analysed and reported on as received basis.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

#### Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

*Signatories*

*Position*

Richard Fung

General Manager

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong  
Tel. +852 2610 1044 Fax. +852 2610 2021 [www.alsglobal.com](http://www.alsglobal.com)

WORK ORDER : HK1907876  
SUB-BATCH : 1  
CLIENT : ENVIROTECH SERVICES CO.  
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1907876-001	S/N: 456668	Equipments	22-Feb-2019	S/N: 456668

## Equipment Verification Report (TSP)

### Equipment Calibrated:

Type: Laser Dust monitor  
 Manufacturer: Sibata LD-3B  
 Serial No. 456668  
 Equipment Ref: Nil  
 Job Order HK1907876

### Standard Equipment:

Standard Equipment: Higher Volume Sampler  
 Location & Location ID: AUES office (calibration room)  
 Equipment Ref: HVS 018  
 Last Calibration Date: 12 February 2019

### Equipment Verification Results:

Testing Date: 4 March 2019

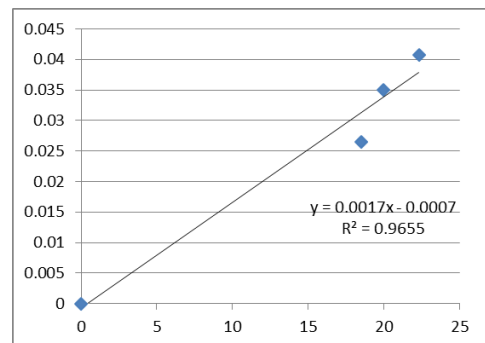
Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr13min	09:10 ~ 11:23	20.9	1013.7	0.035	2659	20.0
2hr01min	11:30 ~ 13:31	20.9	1013.7	0.026	2241	18.5
2hr01min	13:40 ~ 15:41	20.9	1013.7	0.041	2688	22.3

### Linear Regression of Y or X

Slope (K-factor): 0.0017

Correlation Coefficient 0.9826

Date of Issue 7 March 2019



### Remarks:

- Strong** Correlation ( $R > 0.8$ )
- Factor 0.0017 should be applied for TSP monitoring

\*If  $R < 0.5$ , repair or re-verification is required for the equipment

Operator : Fai So Signature :  Date : 7 March 2019

QC Reviewer : Ben Tam Signature :  Date : 7 March 2019



## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

### SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: <b>HK1907875</b>
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 22-FEB-2019
		DATE OF ISSUE	: 7-MAR-2019
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

#### General Comments

- Sample(s) were received in ambient condition.
- Sample(s) analysed and reported on as received basis.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

#### Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

*Signatories*

*Position*

Richard Fung

General Manager

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong  
Tel. +852 2610 1044 Fax. +852 2610 2021 [www.alsglobal.com](http://www.alsglobal.com)

WORK ORDER : HK1907875  
SUB-BATCH : 1  
CLIENT : ENVIROTECH SERVICES CO.  
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1907875-001	S/N: 276019	Equipments	22-Feb-2019	S/N: 276019

# Equipment Verification Report (TSP)

## Equipment Calibrated:

Type: Laser Dust monitor  
Manufacturer: Sibata LD-3B  
Serial No. 276019  
Equipment Ref: Nil  
Job Order HK1907875

## Standard Equipment:

Standard Equipment: Higher Volume Sampler  
Location & Location ID: AUES office (calibration room)  
Equipment Ref: HVS 018  
Last Calibration Date: 12 February 2019

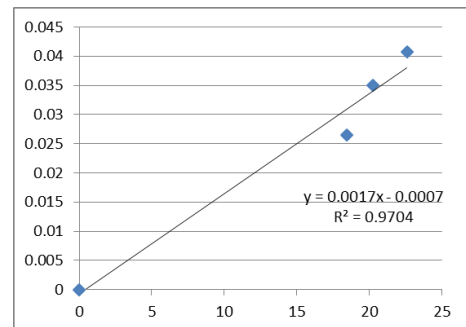
## Equipment Verification Results:

Testing Date: 4 March 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr13min	09:10 ~ 11:23	20.9	1013.7	0.035	2699	20.3
2hr01min	11:30 ~ 13:31	20.9	1013.7	0.026	2235	18.4
2hr01min	13:40 ~ 15:41	20.9	1013.7	0.041	2723	22.6

## Linear Regression of Y or X

Slope (K-factor): 0.0017  
Correlation Coefficient 0.9851  
Date of Issue 7 March 2019



## Remarks:

- Strong** Correlation ( $R > 0.8$ )
  - Factor 0.0017 should be applied for TSP monitoring
- \*If  $R < 0.5$ , repair or re-verification is required for the equipment

Operator : Fai So Signature :  Date : 7 March 2019

QC Reviewer : Ben Tam Signature :  Date : 7 March 2019

# Certificate of Calibration

for

**Description:** Sound Level Meter  
**Manufacturer:** RION  
**Type No.:** NL-52 (Serial No.: 00175561)  
**Microphone:** UC-53A (Serial No.: 99995)  
**Preamplifier:** NH-25 (Serial No.:65663)

**Submitted by:**

**Customer:** Envirotech Services Co.  
**Address:** Rm.113, 1/F., My Loft, 9 Hoi Wing Road,  
Tuen Mun, N.T., Hong Kong.

Upon receipt for calibration, the instrument was found to be:

- Within  
 Outside

the allowable tolerance.

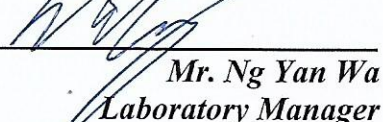
The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

**Date of receipt:** 24 September 2019

**Date of calibration:** 26 September 2019

**Calibrated by:**   
Calibration Technician

**Certified by:**   
Mr. Ng Yan Wa  
Laboratory Manager

**Date of issue:** 26 September 2019

Certificate No.: APJ19-095-CC001



Page 1 of 4





### 1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

### 2. Calibration Conditions:

Air Temperature: 24.1 °C  
 Air Pressure: 1006 hPa  
 Relative Humidity: 54.2 %

### 3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV180064	HOKLAS

### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

Certificate No.: APJ19-095-CC001

Page 2 of 4





Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dB	SPL	Fast	94	31.5	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.0	±1.4
					500	94.0	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
					4000	93.7	±1.6
					8000	91.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBA	SPL	Fast	94	31.5	55.2	-39.4±2.0
					63	68.0	-26.2±1.5
					125	78.0	-16.1±1.5
					250	85.4	-8.6±1.4
					500	90.8	-3.2±1.4
					1000	94.0	Ref
					2000	95.1	+1.2±1.6
					4000	94.7	+1.0±1.6
					8000	90.9	-1.1±2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
30-130	dBC	SPL	Fast	94	31.5	91.3	-3.0±2.0
					63	93.4	-0.8±1.5
					125	93.9	-0.2±1.5
					250	94.0	-0.0±1.4
					500	94.0	-0.0±1.4
					1000	94.0	Ref
					2000	93.8	-0.2±1.6
					4000	92.9	-0.8±1.6
					8000	89.0	-3.0 +2.1: -3.1

Certificate No.: APJ19-095-CC001



Page 3 of 4

## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.





# Certificate of Calibration 校正證書

Certificate No. : C192695  
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC19-0995)      Date of Receipt / 收件日期 : 17 May 2019  
Description / 儀器名稱 : Precision Acoustic Calibrator  
Manufacturer / 製造商 : LARSON DAVIS  
Model No. / 型號 : CAL200  
Serial No. / 編號 : 11333  
Supplied By / 委託者 : Envirotech Services Co.  
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,  
New Territories, Hong Kong

## TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}\text{C}$       Relative Humidity / 相對濕度 :  $(50 \pm 25)\%$   
Line Voltage / 電壓 : ---

## TEST SPECIFICATIONS / 測試規範

Calibration check

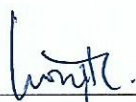
DATE OF TEST / 測試日期 : 26 May 2019

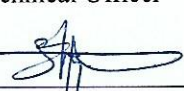
## TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.  
The results do not exceed manufacturer's specification.  
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By :   
測試 : \_\_\_\_\_  
H T Wong  
Technical Officer

Certified By :   
核證 : \_\_\_\_\_  
K O Lee  
Engineer

Date of Issue : 29 May 2019  
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。





# Certificate of Calibration

## 校正證書

Certificate No. : C192695  
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C183775
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C181288

- Test procedure : MA100N.

- Results :

### 5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8		

### 5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec. (Hz)	Uncertainty of Measured Value (Hz)
1	1.000	1 kHz ± 1 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606

Fax/傳真: (852) 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

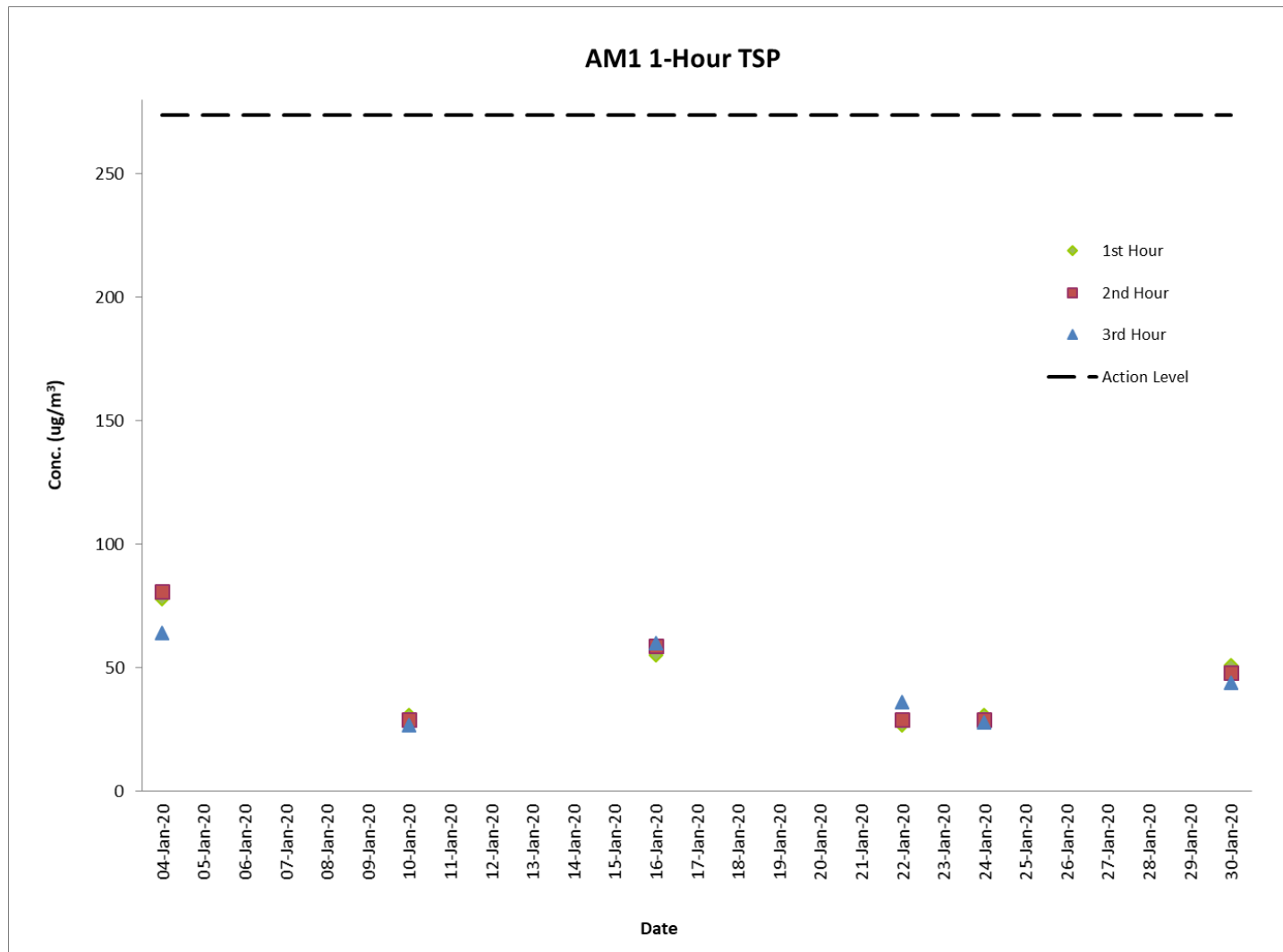
## G. Graphical Plots of the Monitoring Results

**Air Quality Monitoring Result at Station AM1 (1-hour TSP)**

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
04-Jan-20	Sunny	8:12 - 11:12	78	81	64	273.7	500
10-Jan-20	Fine	13:12 - 16:12	31	29	27	273.7	500
16-Jan-20	Cloudy	13:18 - 16:18	55	59	60	273.7	500
22-Jan-20	Cloudy	8:14 - 11:14	27	29	36	273.7	500
24-Jan-20	Cloudy	13:10 - 16:10	31	29	28	273.7	500
30-Jan-20	Sunny	8:11 - 11:11	51	48	44	273.7	500



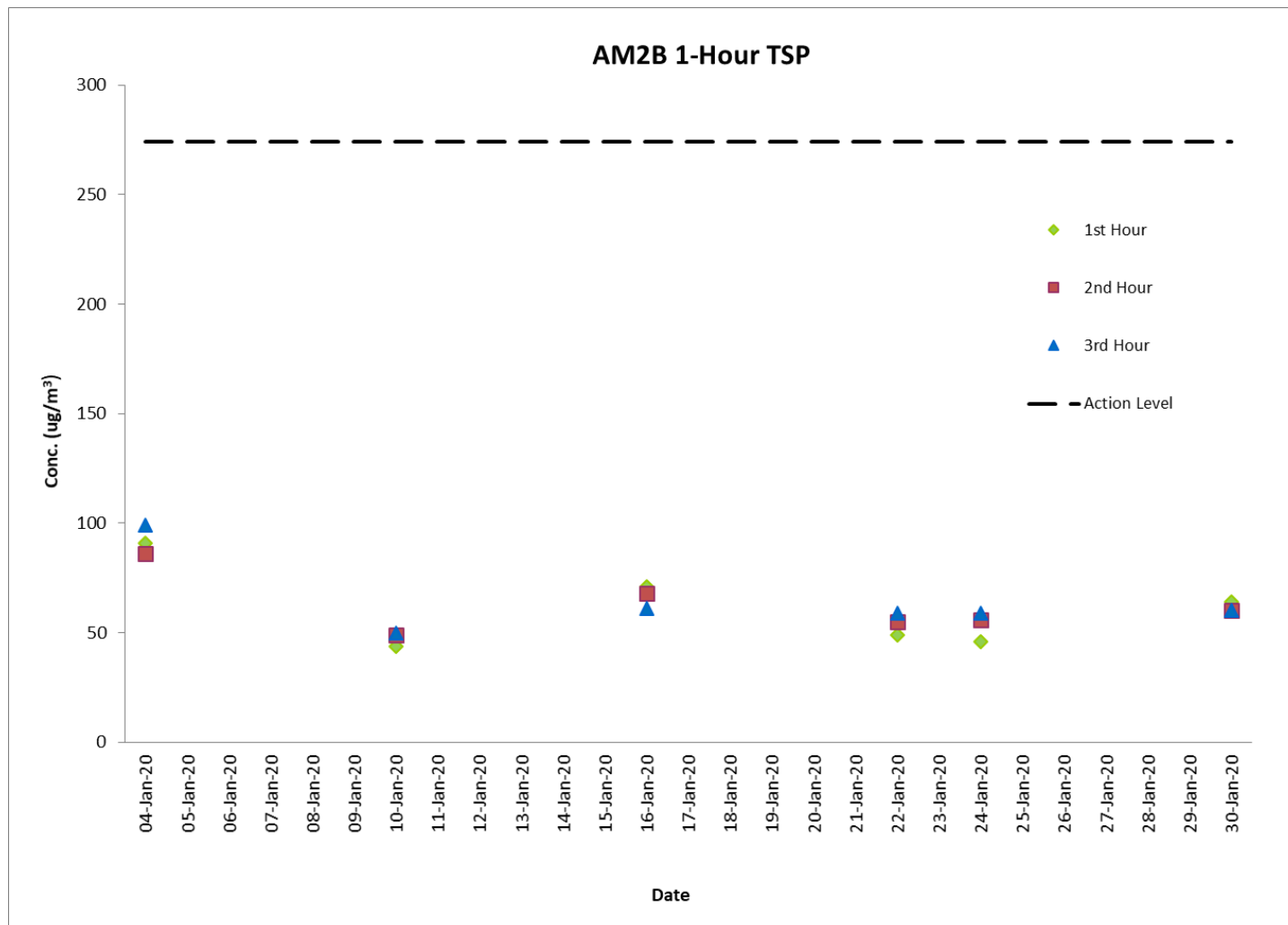
### Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



**Air Quality Monitoring Result at Station AM2B (1-hour TSP)**

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
04-Jan-20	Sunny	8:27 - 11:27	91	86	99	274.2	500
10-Jan-20	Fine	13:27 - 16:27	44	49	50	274.2	500
16-Jan-20	Cloudy	13:32 - 16:32	71	68	61	274.2	500
22-Jan-20	Cloudy	8:28 - 11:28	49	55	59	274.2	500
24-Jan-20	Cloudy	13:24 - 16:24	46	56	59	274.2	500
30-Jan-20	Sunny	8:25 - 11:25	64	60	60	274.2	500

### Graphical Presentation of Air Quality Monitoring Result at Station AM2B (1-hour TSP)

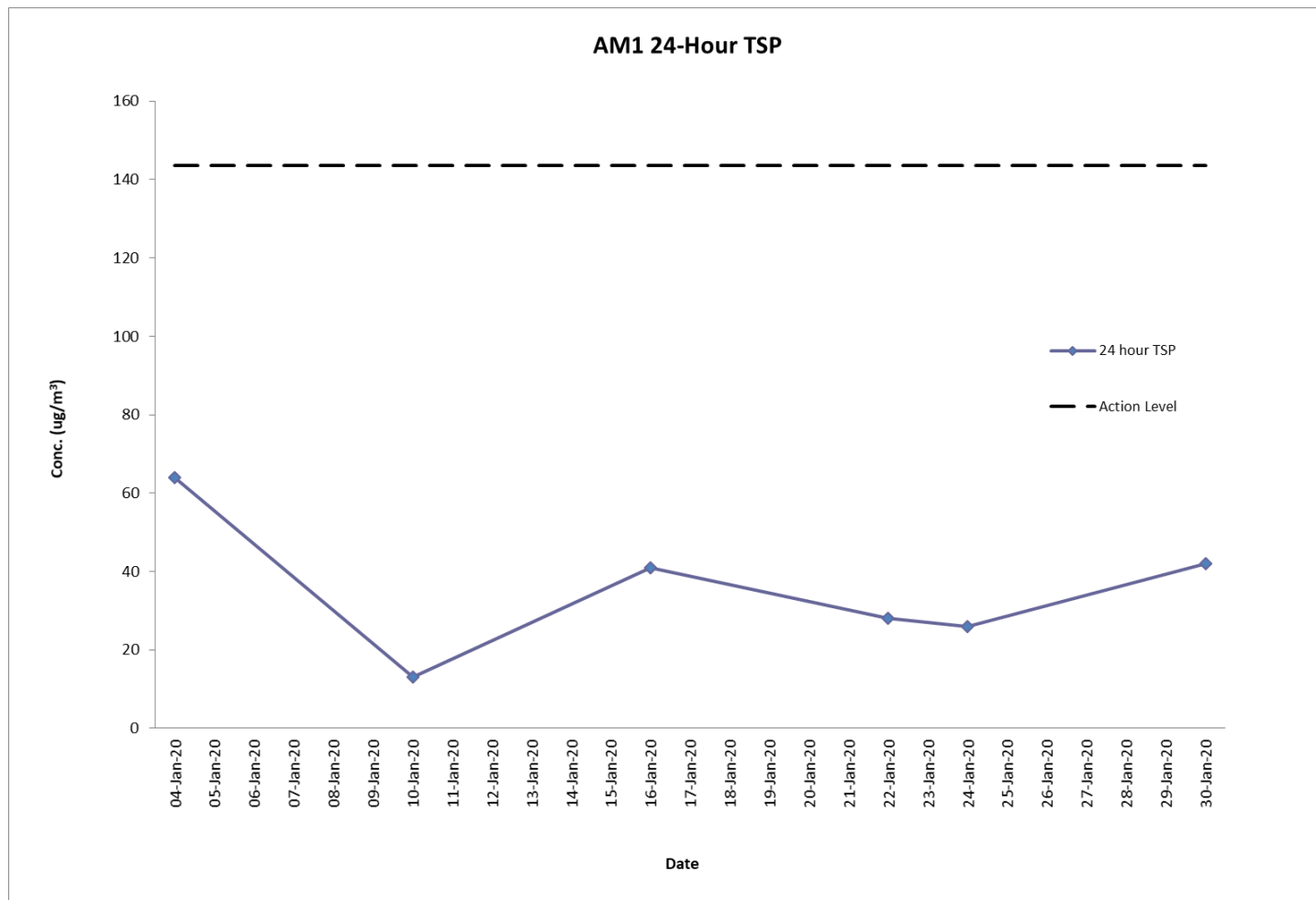




**Air Quality Monitoring Result at Station AM1 (24-hour TSP)**

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
04-Jan-20	8:10	05-Jan-20	8:10	2.6028	2.724	21224.38	21248.38	24	1.31	1.31	1.31	64	Sunny	143.6	260
10-Jan-20	8:10	11-Jan-20	8:10	2.6907	2.716	21248.38	21272.38	24	1.31	1.31	1.31	13	Fine	143.6	260
16-Jan-20	8:20	17-Jan-20	8:20	2.693	2.77	21272.38	21296.38	24	1.31	1.31	1.31	41	Cloudy	143.6	260
22-Jan-20	8:12	23-Jan-20	8:12	2.698	2.7484	21296.38	21320.38	24	1.25	1.25	1.25	28	Cloudy	143.6	260
24-Jan-20	8:08	25-Jan-20	8:08	2.6957	2.7425	21320.38	21344.38	24	1.25	1.25	1.25	26	Cloudy	143.6	260
30-Jan-20	8:09	31-Jan-20	8:09	2.6532	2.7291	21344.38	21368.38	24	1.25	1.25	1.25	42	Sunny	143.6	260

### Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)

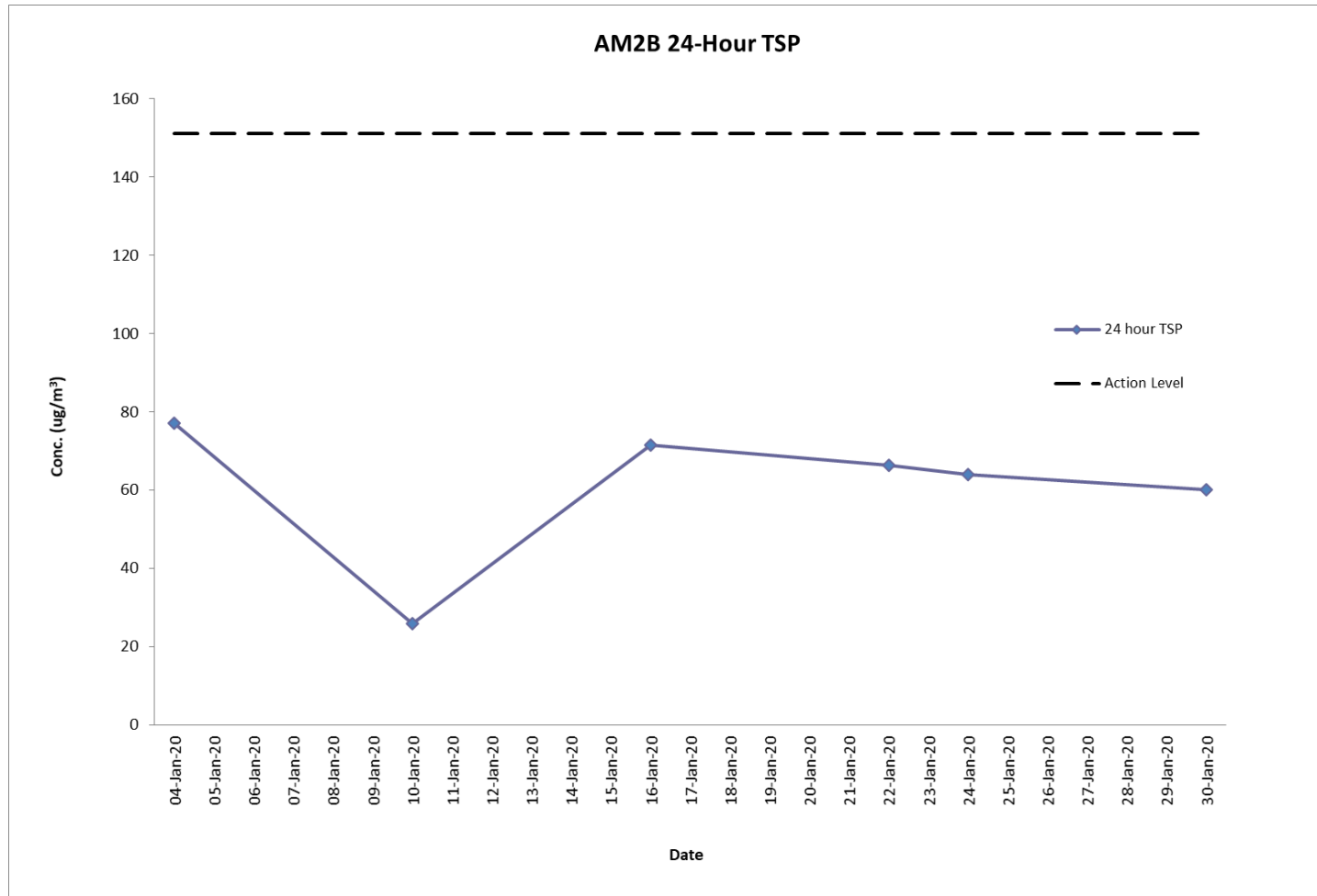


**Air Quality Monitoring Result at Station AM2B (24-hour TSP)**

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
04-Jan-20	8:25	05-Jan-20	8:25	2.6973	2.8415	20779.05	20803.05	24	1.30	1.30	1.3	77	Sunny	151.1	260
10-Jan-20	8:25	11-Jan-20	8:25	2.6946	2.7428	20803.05	20827.05	24	1.30	1.30	1.3	26	Fine	151.1	260
16-Jan-20	8:34	17-Jan-20	8:34	2.6902	2.8240	20827.05	20851.05	24	1.30	1.30	1.3	71	Cloudy	151.1	260
22-Jan-20	8:26	23-Jan-20	8:26	2.6850	2.7985	20851.05	20875.05	24	1.19	1.19	1.19	66	Cloudy	151.1	260
24-Jan-20	8:22	25-Jan-20	8:22	2.7069	2.8163	20875.05	20899.05	24	1.19	1.19	1.19	64	Cloudy	151.1	260
30-Jan-20	8:23	31-Jan-20	8:23	2.6774	2.7800	20899.05	20923.05	24	1.19	1.19	1.19	60	Sunny	151.1	260



### Graphical Presentation of Air Quality Monitoring Result at Station AM2B (24-hour TSP)



### Noise Monitoring Result at Station NM1A

Date	Time	Measured L <sub>10</sub> , dB(A)	Measured L <sub>90</sub> , dB(A)	L <sub>eq</sub> (30 min.)*, dB(A)
10-Jan-20	10:35	67.1	63.9	69
10-Jan-20	10:40	68.9	64.7	
10-Jan-20	10:45	68.7	64.8	
10-Jan-20	10:50	67.1	63.5	
10-Jan-20	10:55	66.4	62.6	
10-Jan-20	11:00	67.3	63.4	
16-Jan-20	10:40	67.0	63.4	68
16-Jan-20	10:45	68.1	64.5	
16-Jan-20	10:50	67.8	63.7	
16-Jan-20	10:55	66.5	62.6	
16-Jan-20	11:00	67.6	63.9	
16-Jan-20	11:05	66.3	62.5	
22-Jan-20	10:33	68.0	64.1	68
22-Jan-20	10:38	66.9	62.7	
22-Jan-20	10:43	66.7	62.9	
22-Jan-20	10:48	67.0	63.4	
22-Jan-20	10:53	67.7	63.7	
22-Jan-20	10:58	66.5	62.9	
30-Jan-20	10:30	66.0	62.1	68
30-Jan-20	10:35	65.8	61.5	
30-Jan-20	10:40	67.1	63.4	
30-Jan-20	10:45	67.7	63.5	
30-Jan-20	10:50	66.4	62.0	
30-Jan-20	10:55	65.9	61.5	

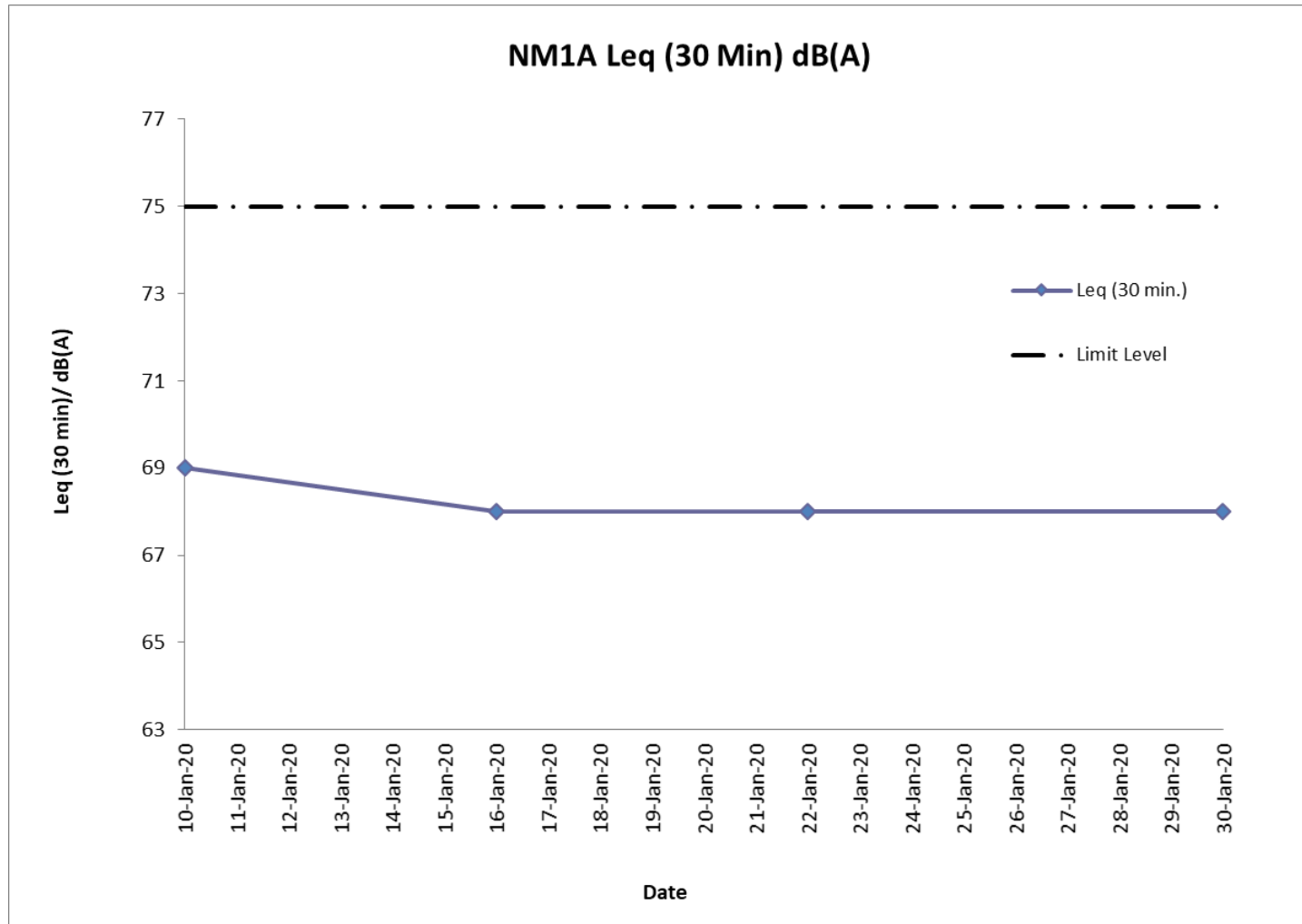
**Remarks:**

\* +3dB (A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at Station NM1A.

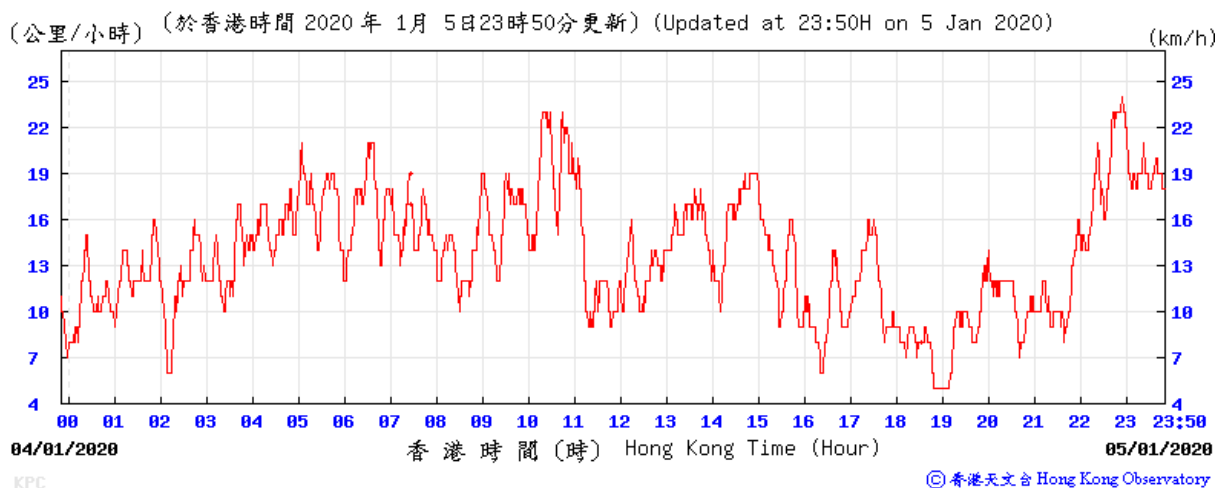
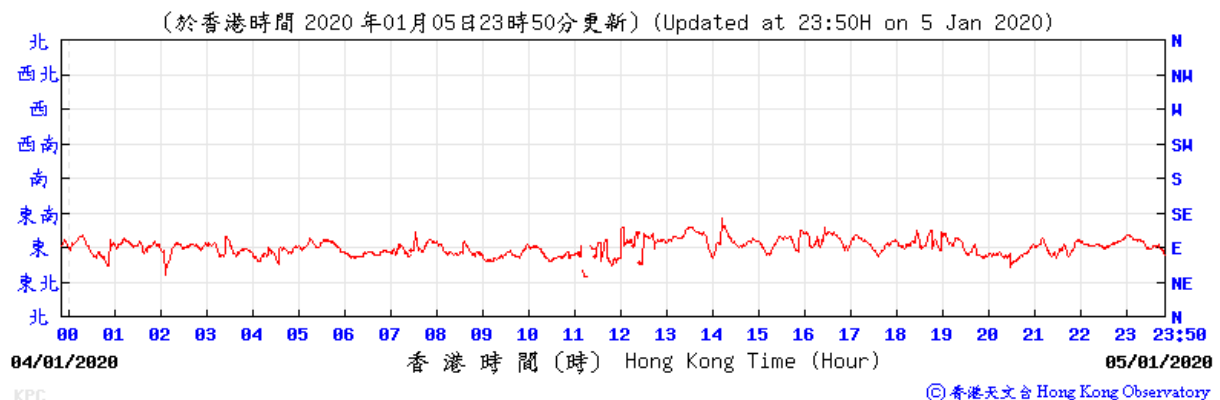
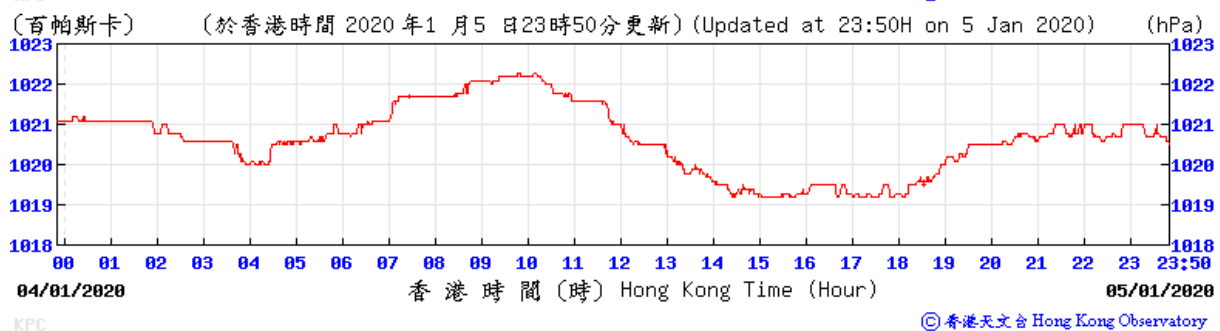
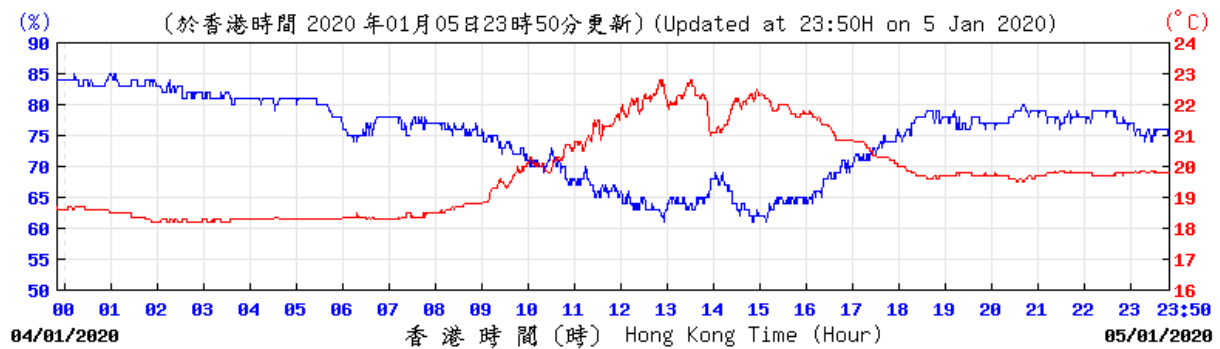
### Graphical Presentation Noise Monitoring Result at Station NM1A

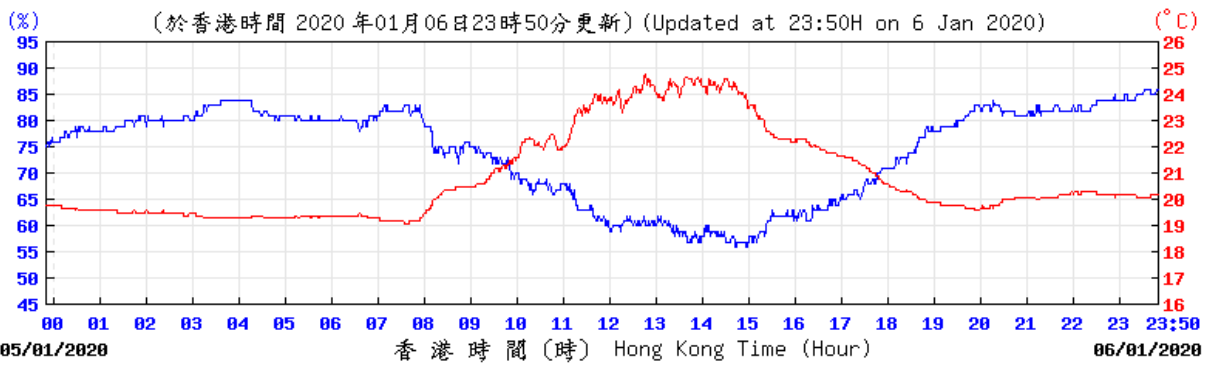




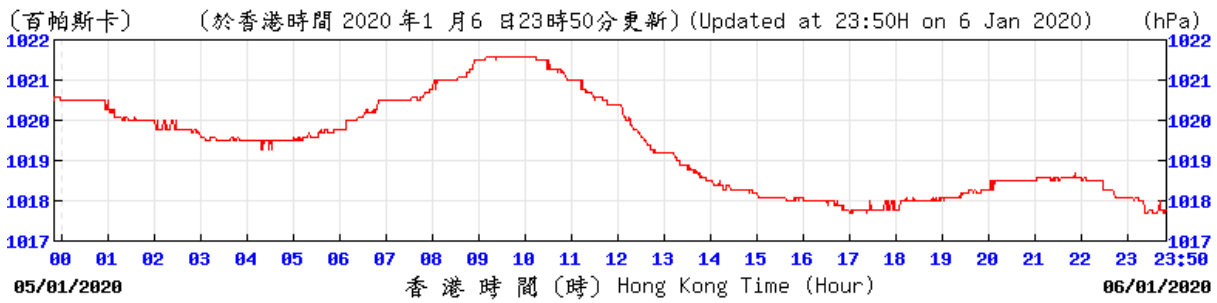
## **H. Meteorological Data Extracted from Hong Kong Observatory**

# Extract of Meteorological Observations for King's Park Automatic Weather Station, January 2020

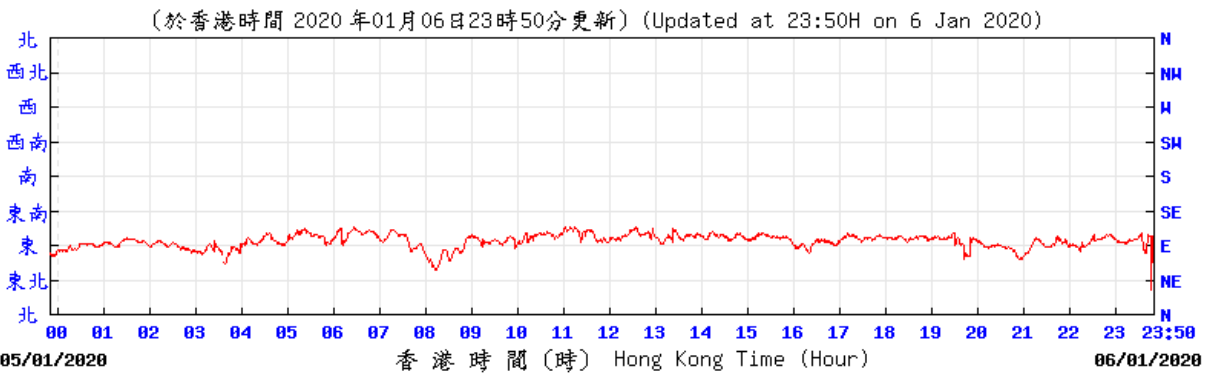




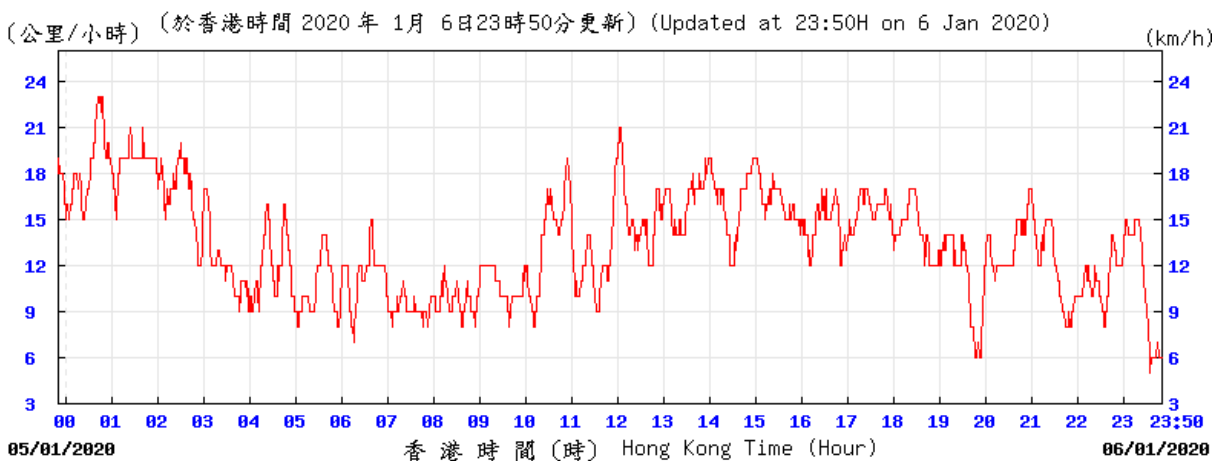
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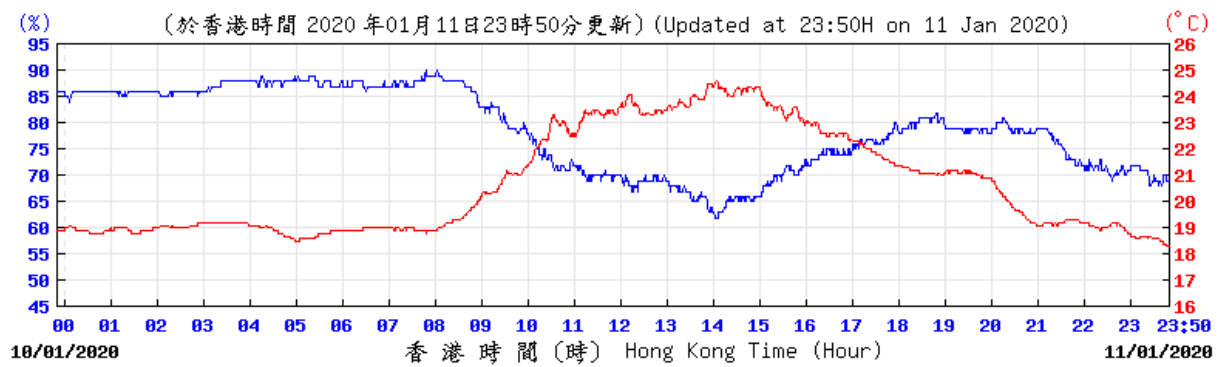
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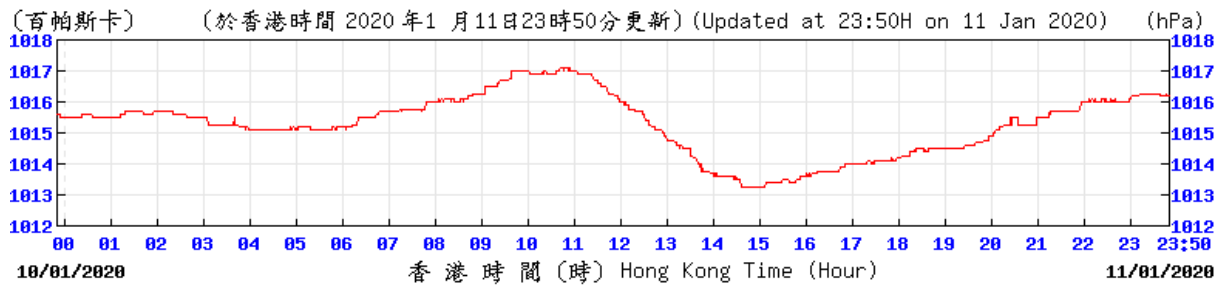
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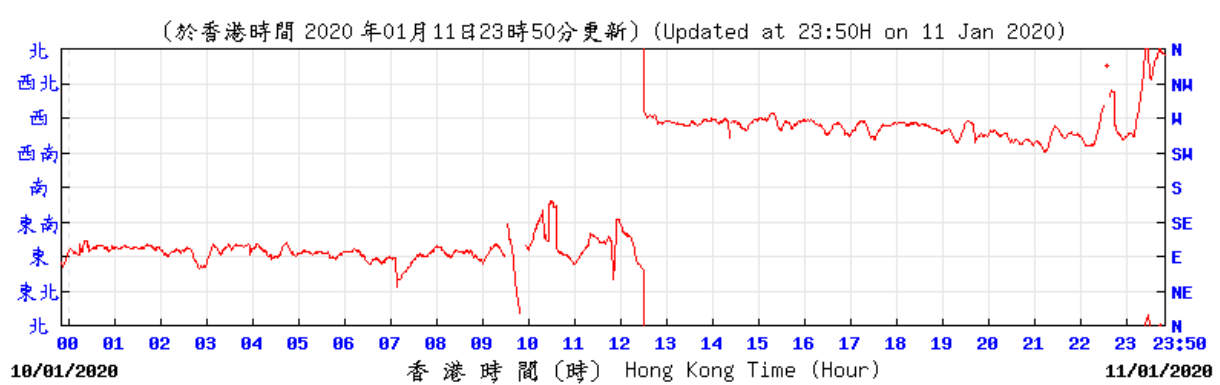
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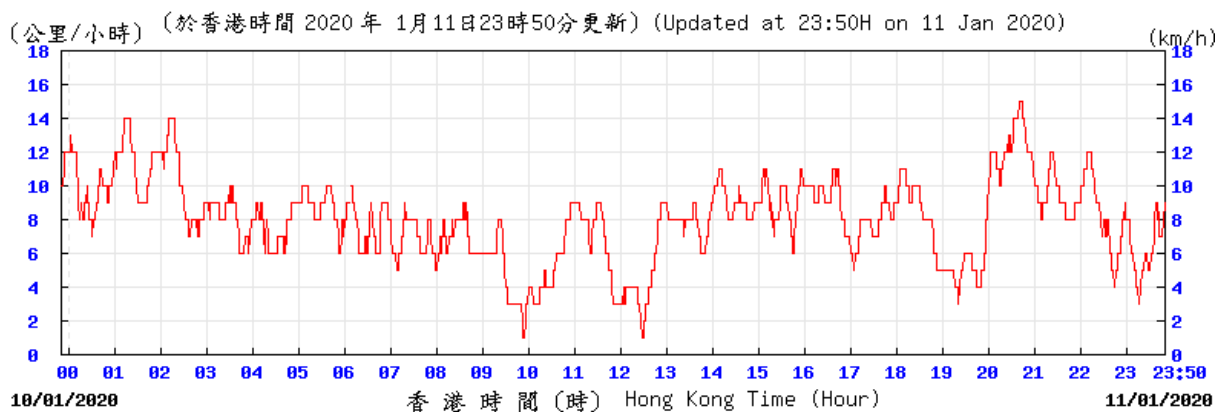
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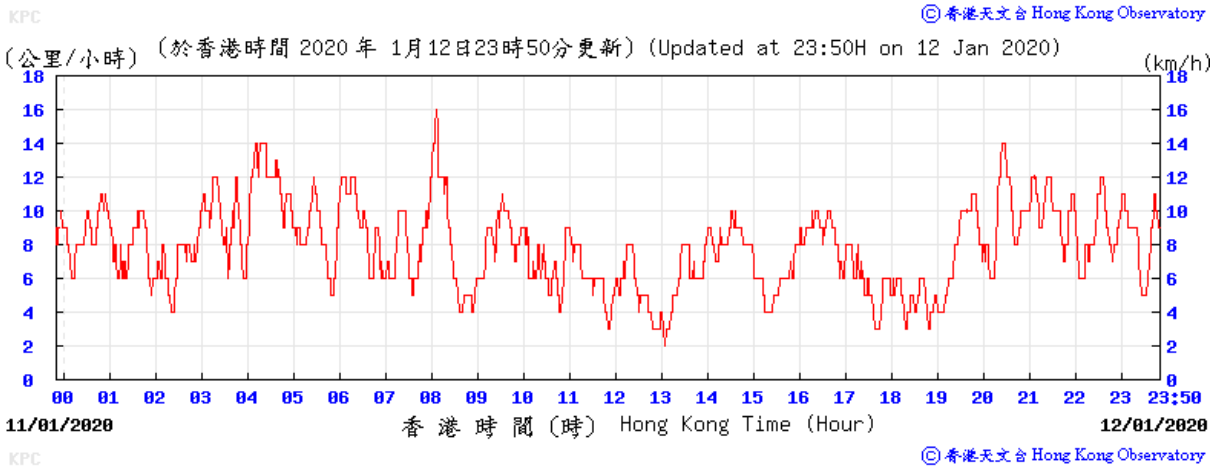
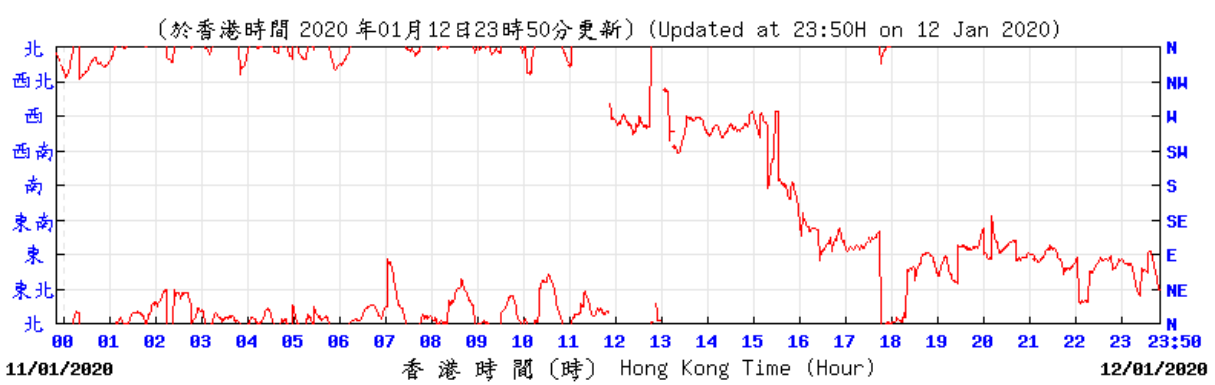
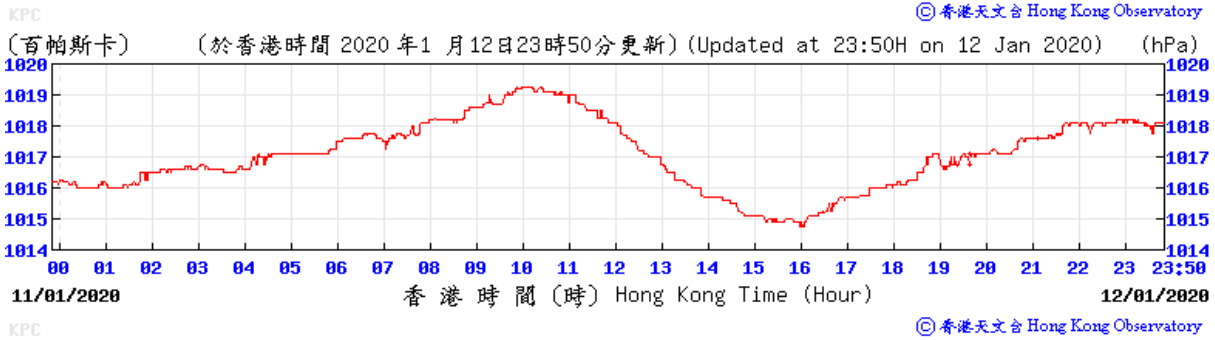
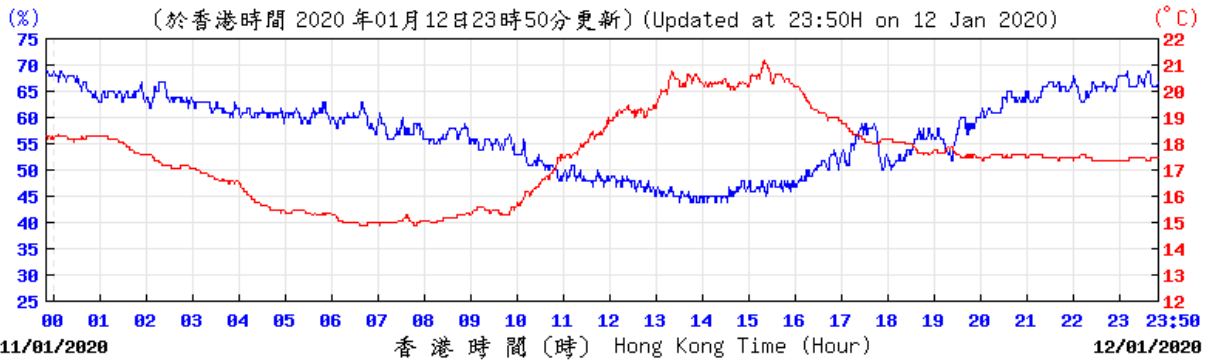


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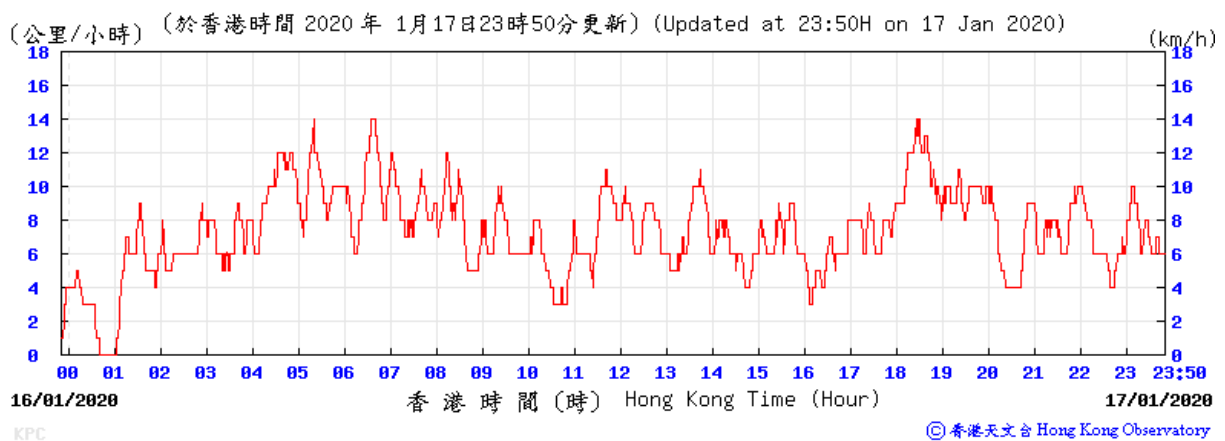
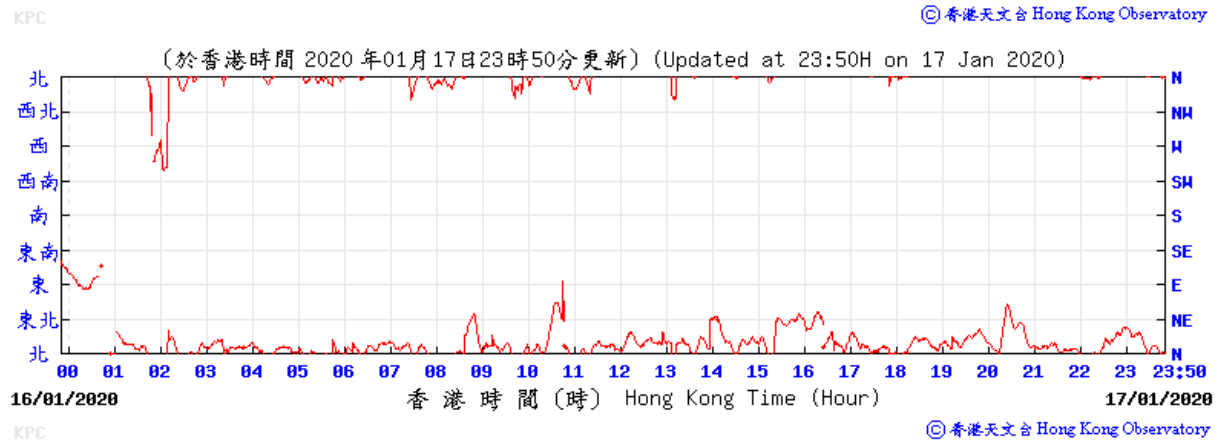
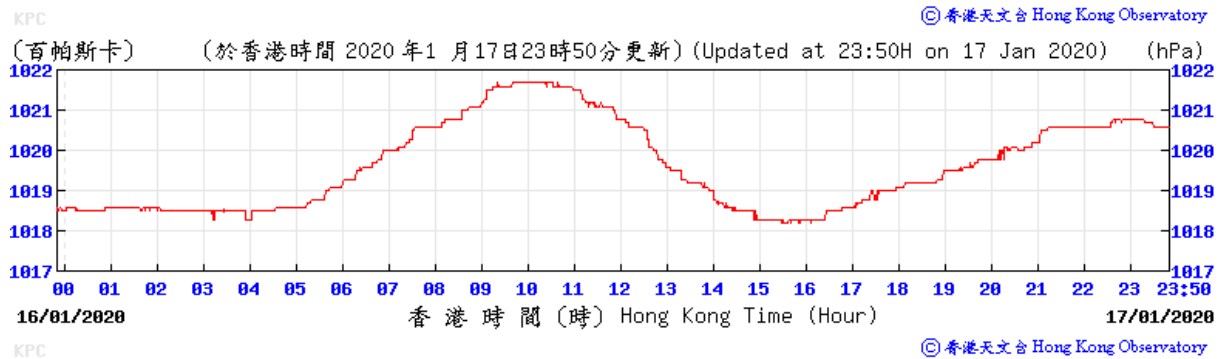
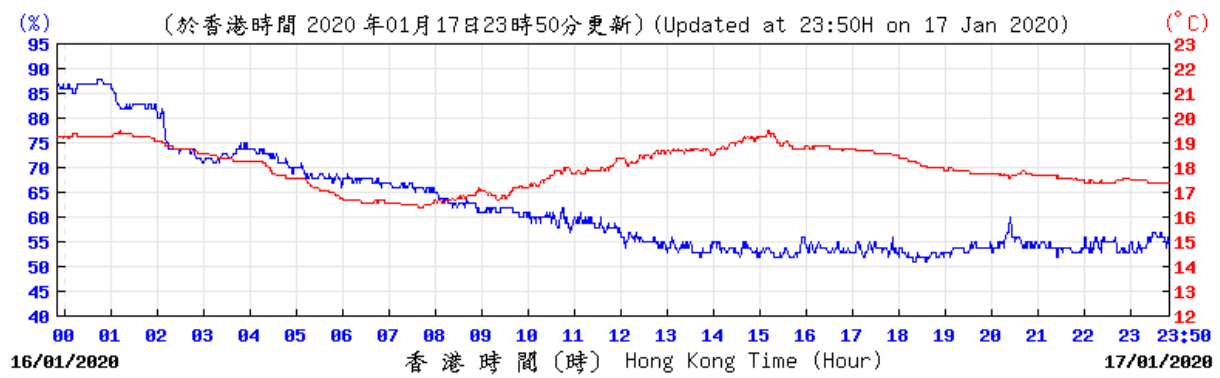


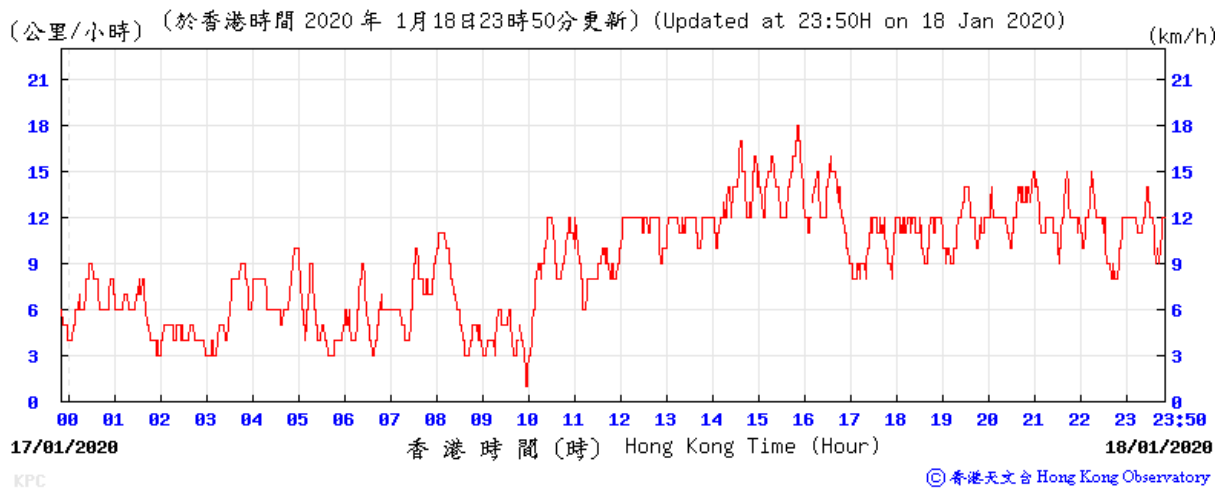
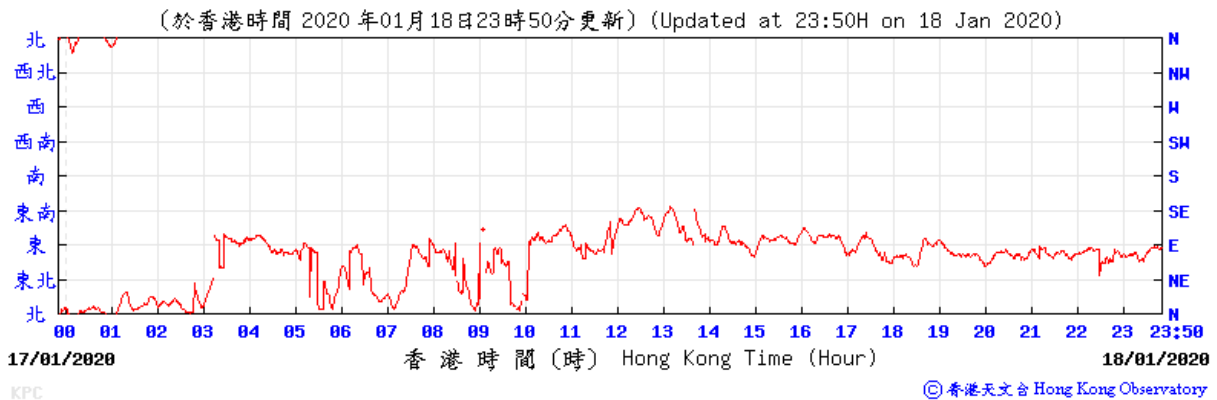
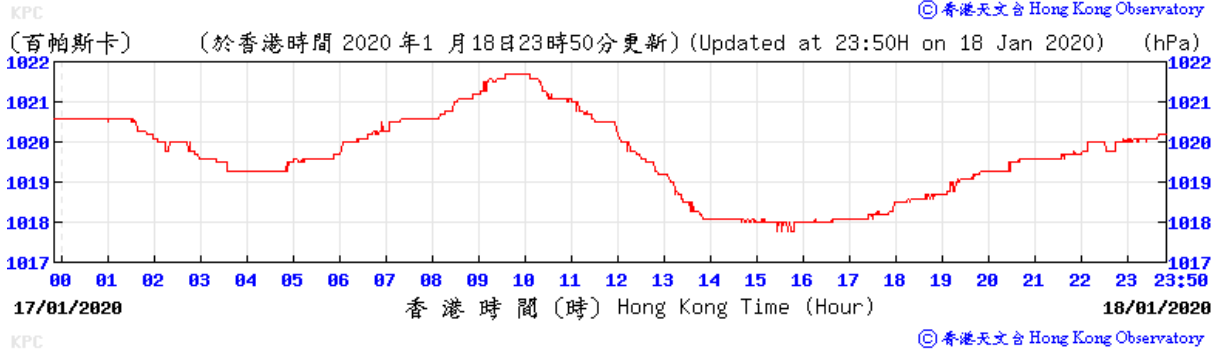
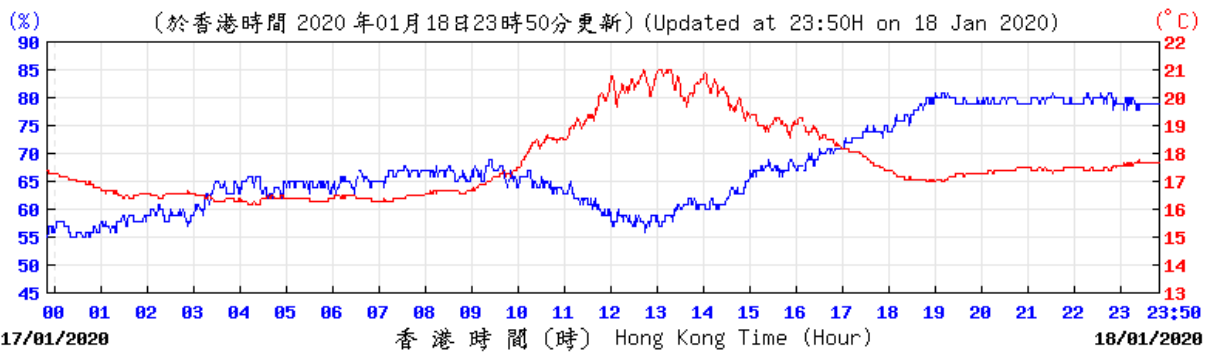
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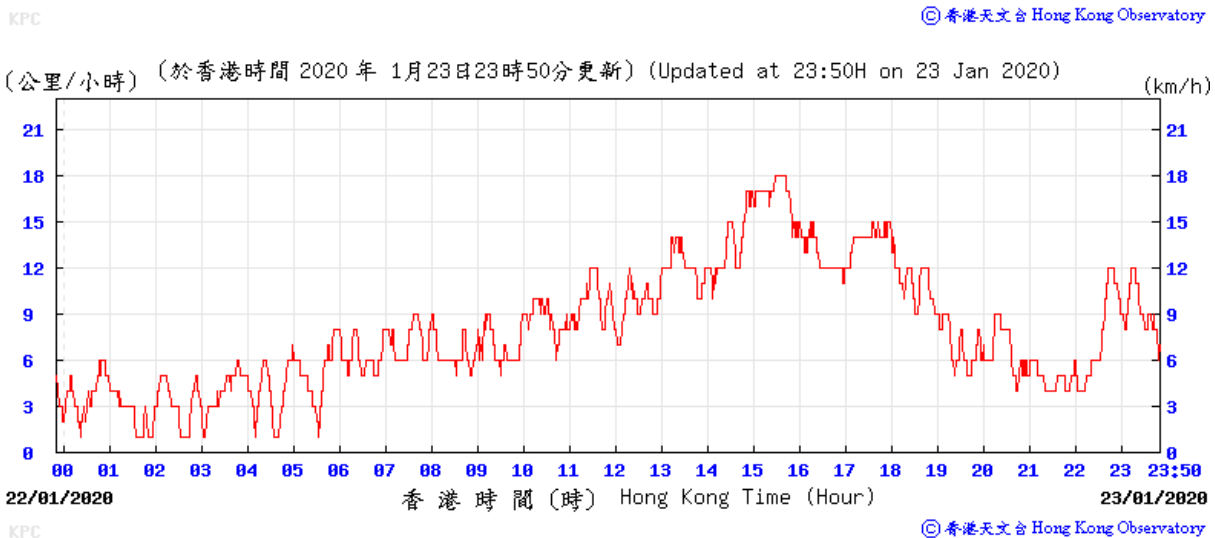
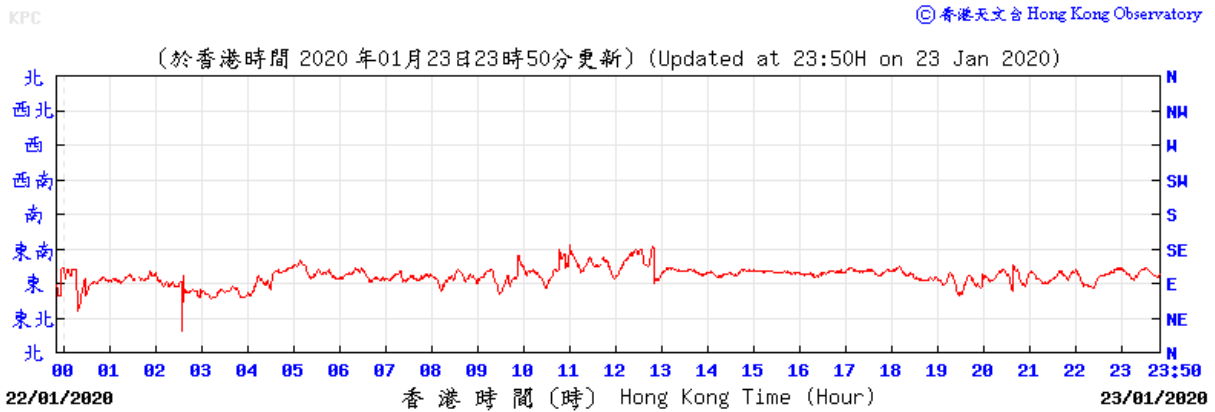
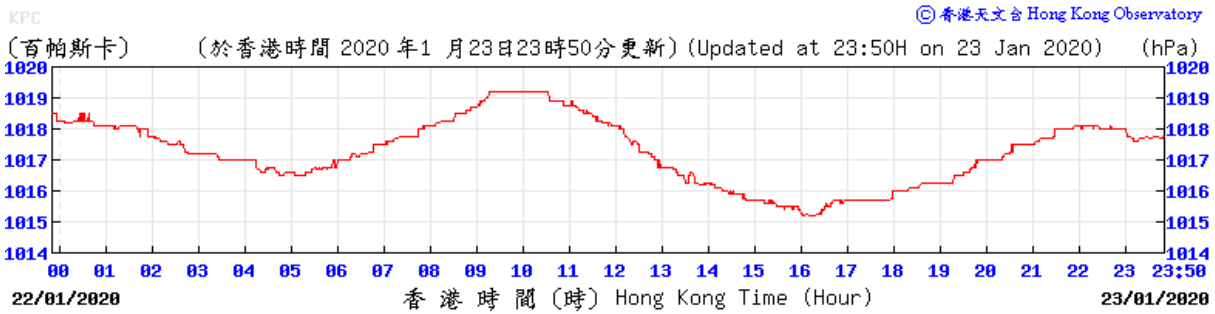
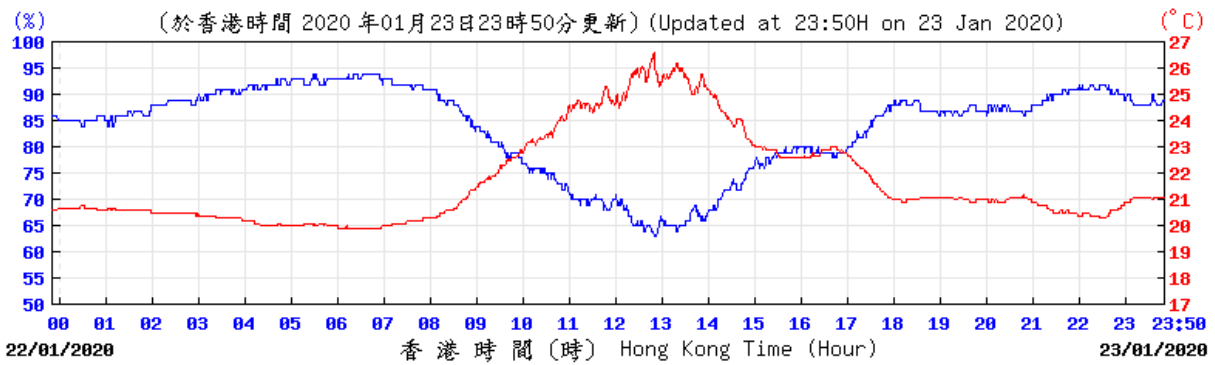
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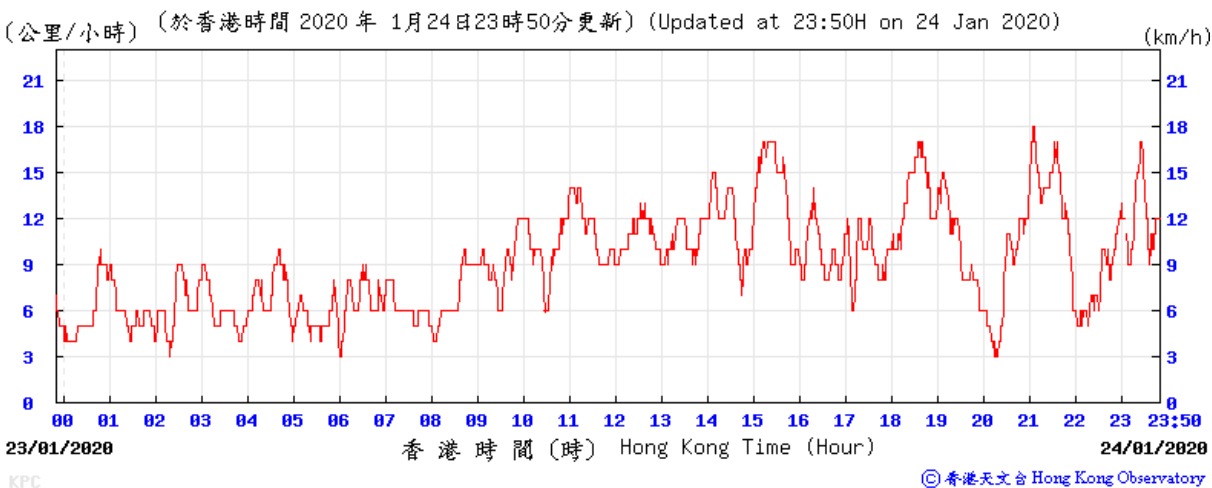
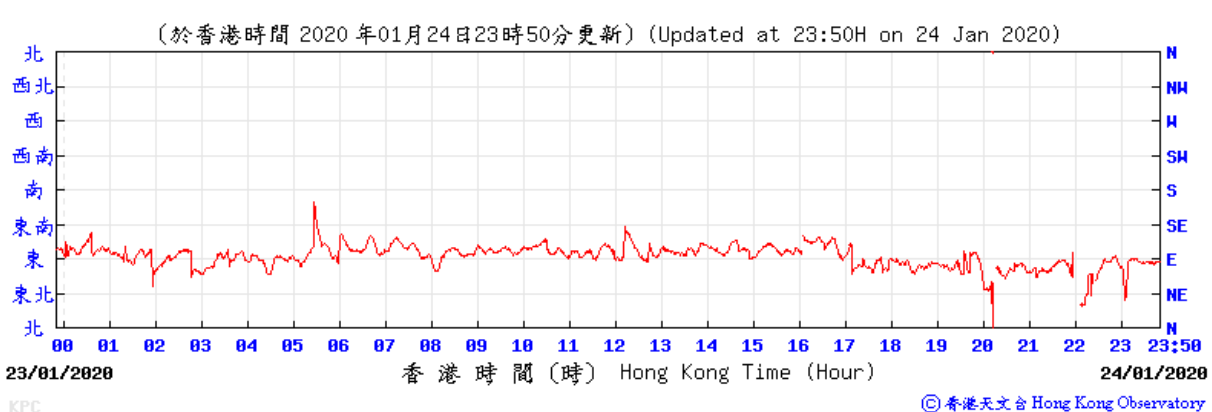
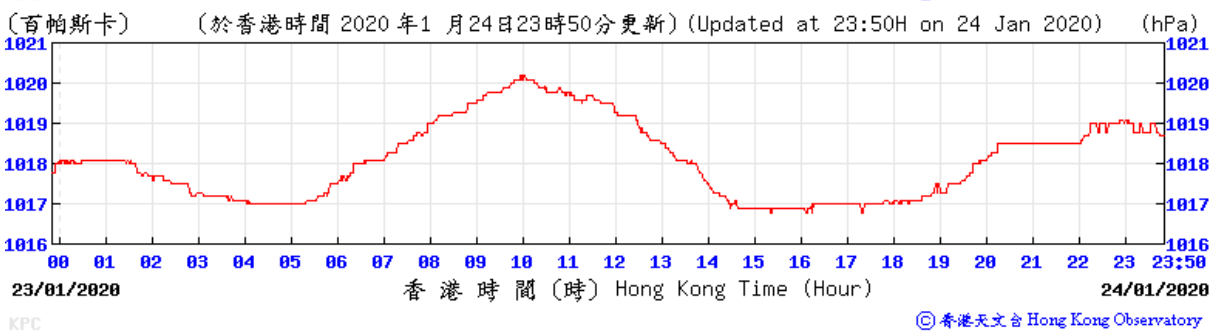
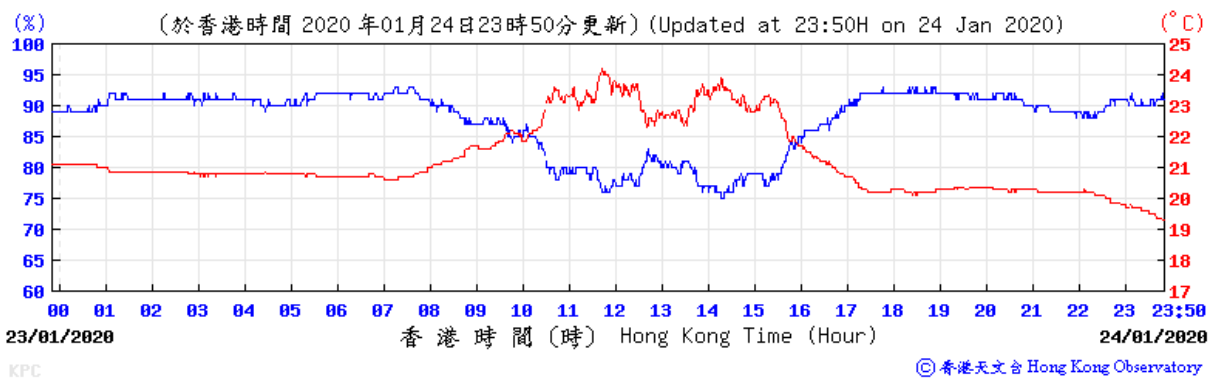
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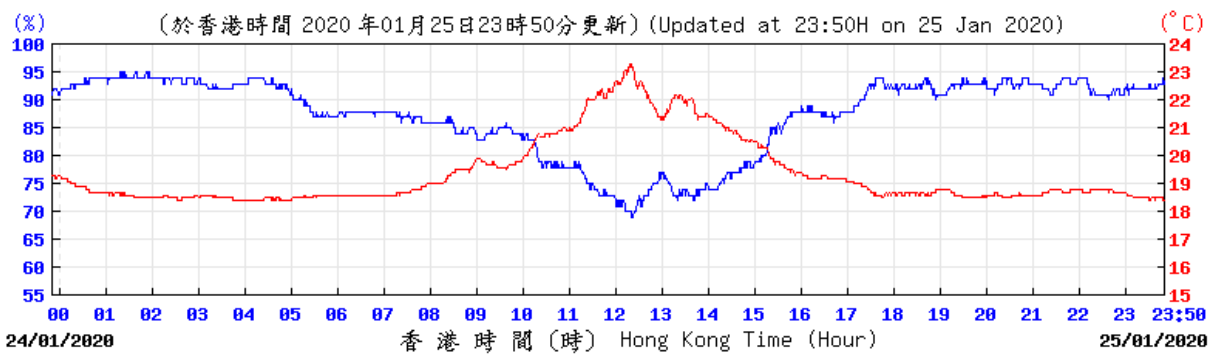




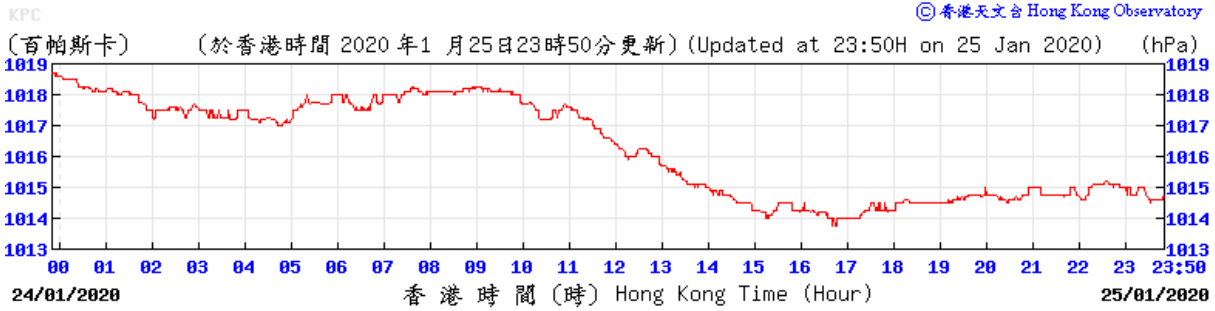




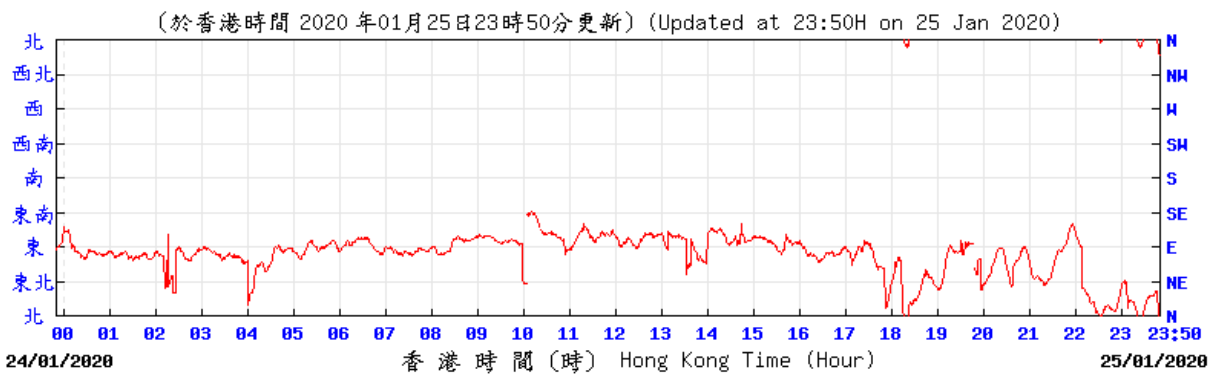




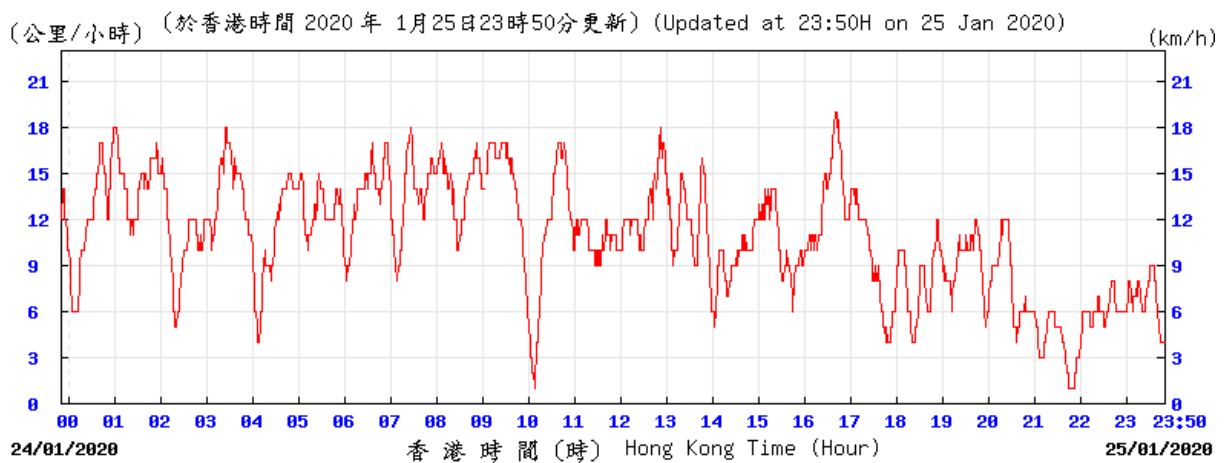
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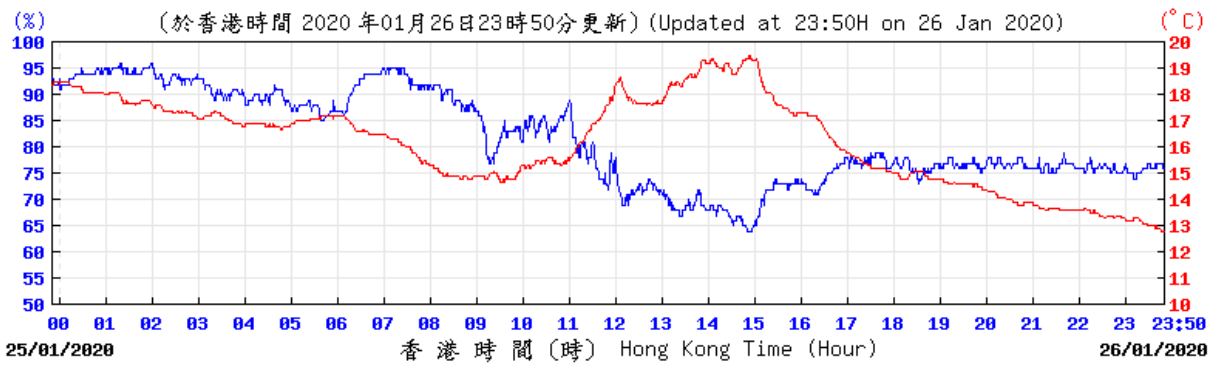
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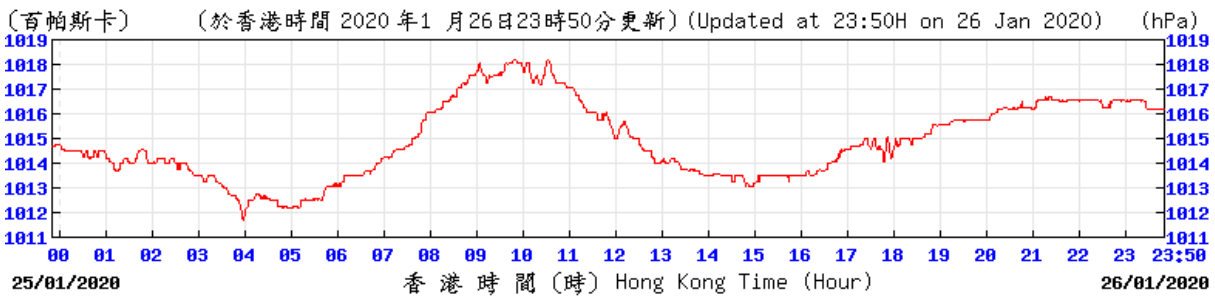
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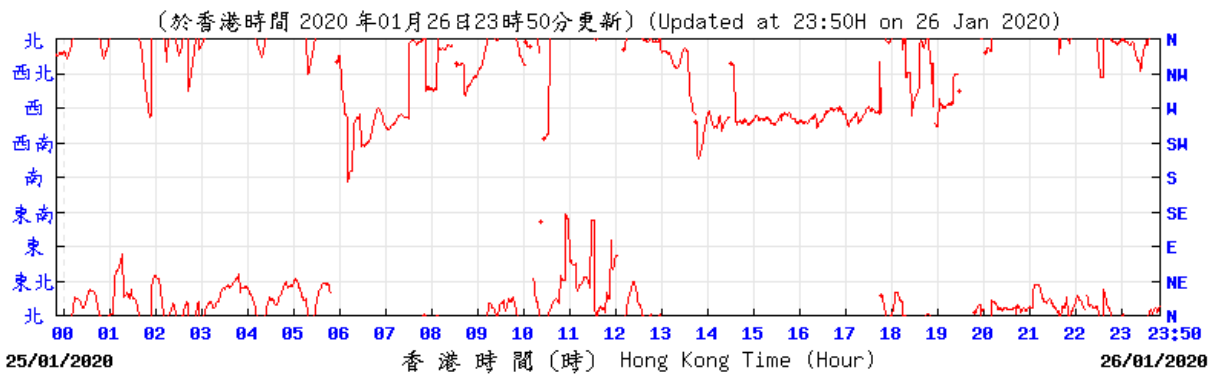
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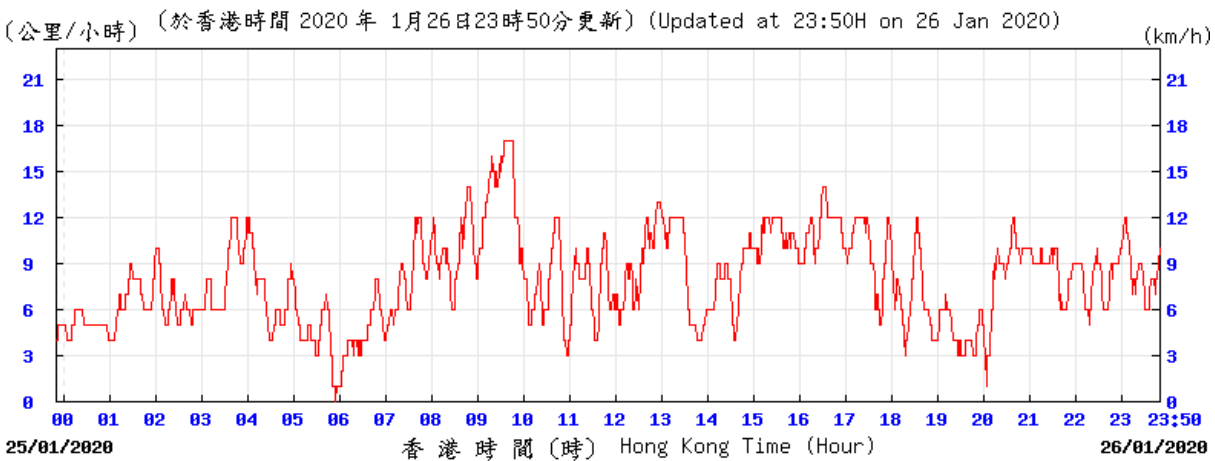
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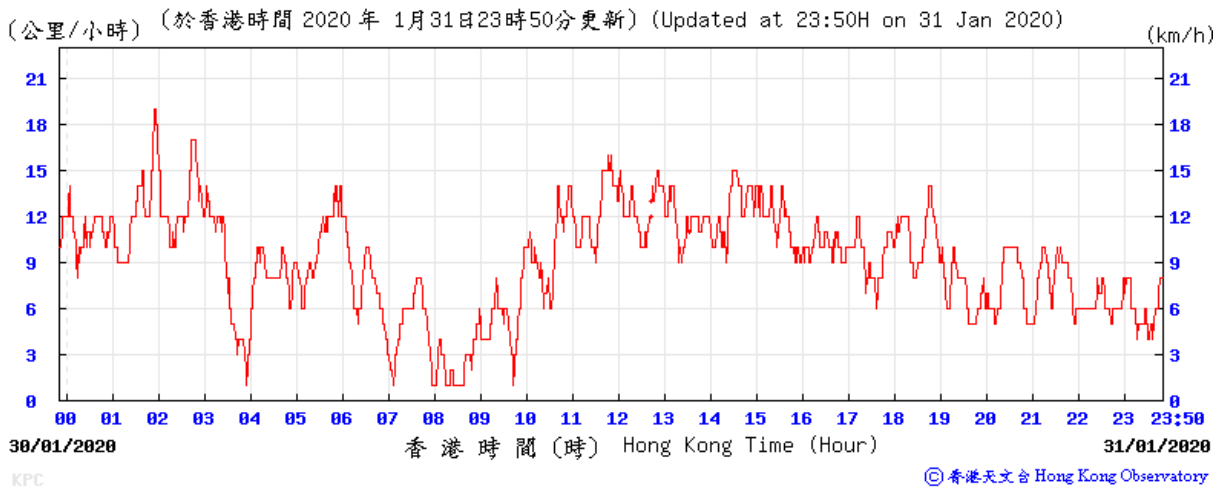
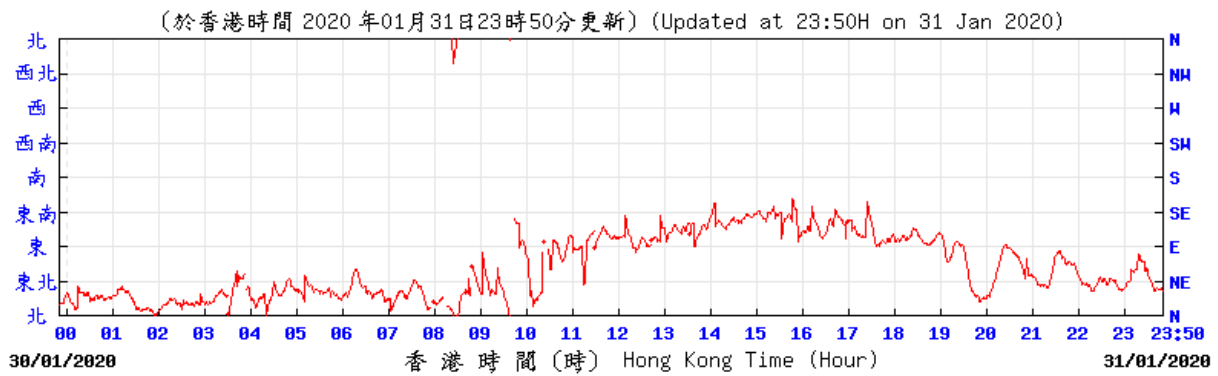
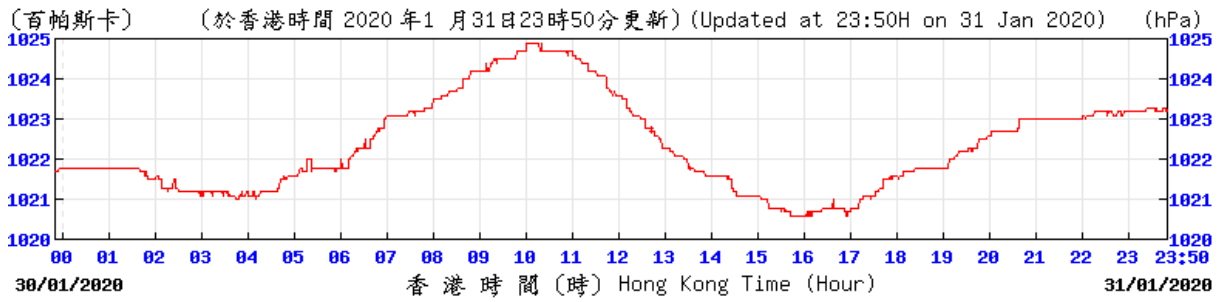
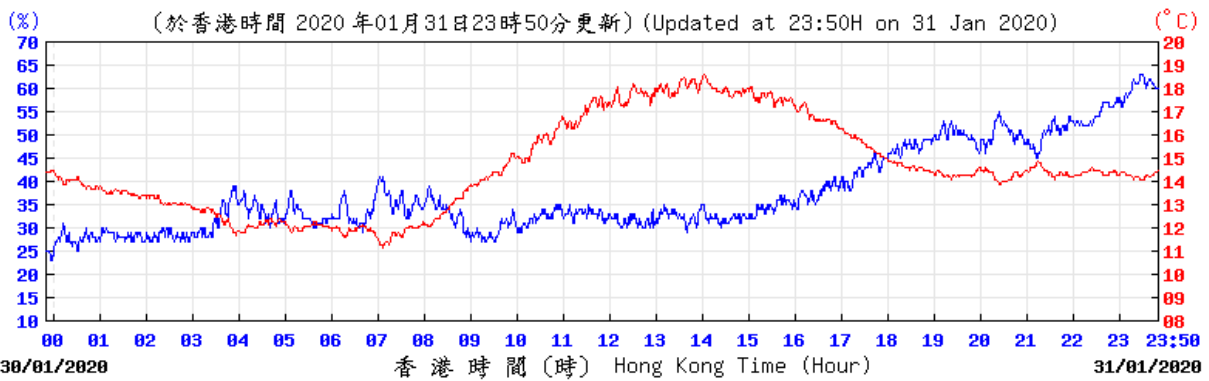
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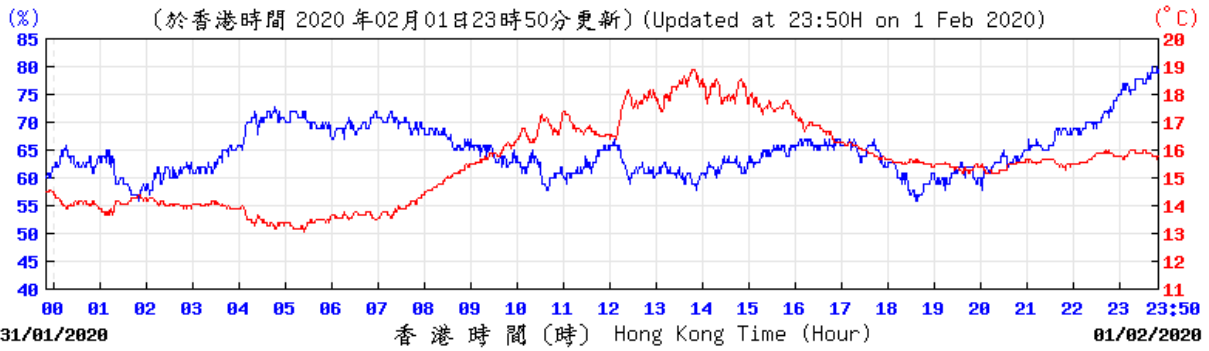
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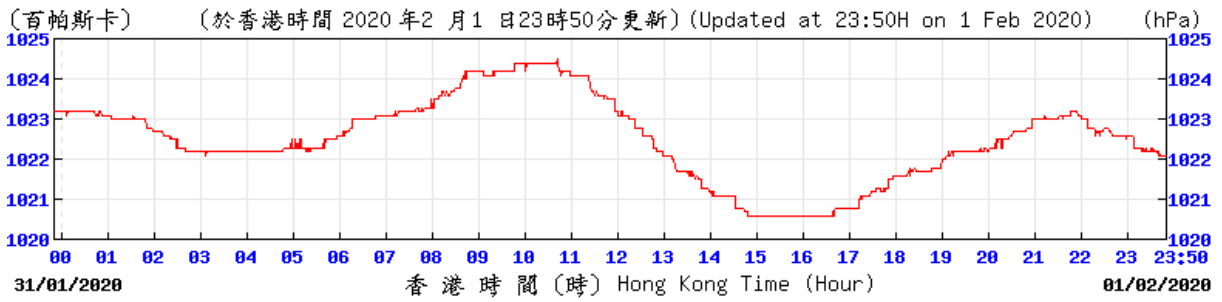
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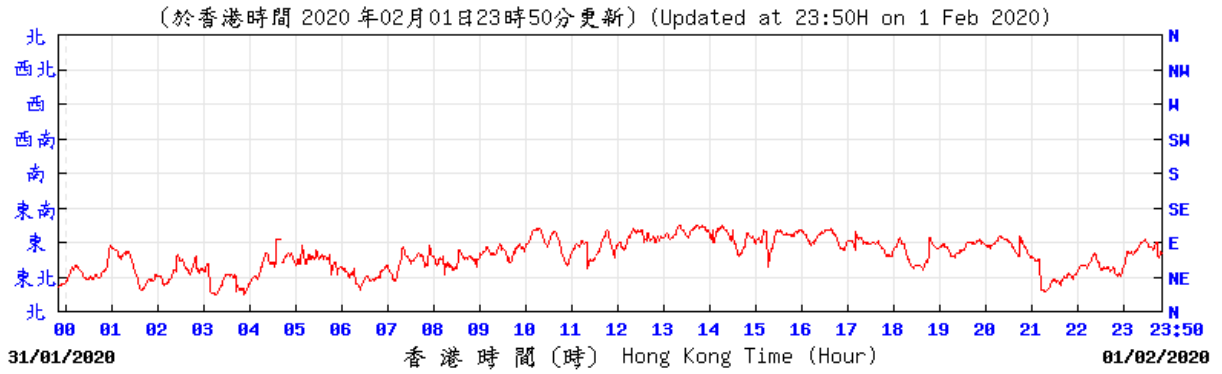




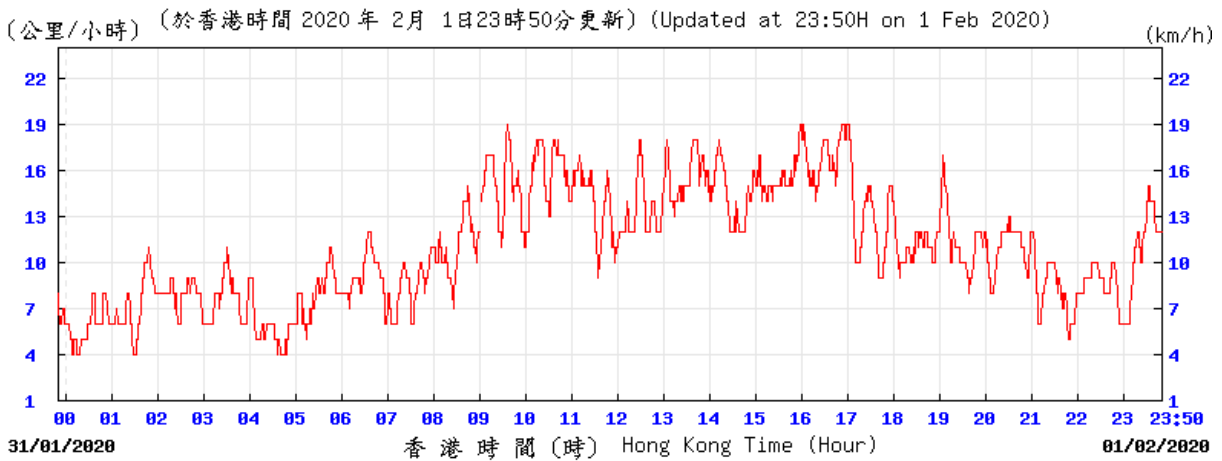
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# I. Waste Flow table

**M+ Museum**

**Table I-1: Monthly Waste Flow Table for M+ Museum**

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
<b>2015</b>													
Nov	46607.4	0.0	0.0	8240.0	38367.4	0.0	0.0	76.2	0.0	0.0	0.0	0.0	67.6
Dec	29652.9	0.0	0.0	29621.4	31.5	0.0	0.0	26.3	0.0	0.0	0.0	1.0	66.0
Sub-total (2015)	76260.3	0.0	0.0	37861.4	38398.9	0.0	0.0	102.5	0.0	0.0	0.0	1.0	133.6
<b>2016</b>													
Jan	21077.4	0.0	6352.0	14576.0	149.4	0.0	0.0	18.8	0.0	0.0	0.0	0.0	23.2
Feb	7626.2	0.0	3424.0	4048.0	154.2	0.0	0.0	59.8	0.0	0.0	0.0	0.0	20.5
Mar	10442.5	0.0	1600.0	7888.0	954.5	0.0	0.0	29.7	0.0	0.0	0.0	0.0	46.3
Apr	30413.2	0.0	6352.0	23408.0	653.2	0.0	0.0	25.8	0.1	0.0	27.8	0.0	34.5
May	24083.5	0.0	112.0	23216.0	755.5	0.0	0.0	61.5	0.4	0.0	33.6	0.0	62.3
Jun	7880.1	0.0	4736.0	2384.0	760.1	0.0	0.0	106.6	0.1	0.0	14.6	0.0	52.8
Jul	5893.1	0.0	2656.0	2240.0	997.1	0.0	0.0	77.6	0.0	0.0	33.6	0.0	83.1
Aug	13709.6	0.0	0.0	12432.0	1277.6	0.0	0.0	111.3	0.2	0.0	38.5	0.0	104.9
Sep	6702.0	0.0	0.0	5648.0	1000.1	53.9	0.0	104.2	0.0	0.0	45.5	0.2	107.9
Oct	2103.6	0.0	0.0	496.0	1595.4	12.2	0.0	83.0	0.4	0.0	73.5	0.0	108.2
Nov	3302.7	0.0	0.0	2384.0	855.5	63.2	0.0	88.4	0.6	0.0	63.0	0.0	129.1
Dec	899.8	0.0	0.0	736.0	126.8	37.0	0.0	48.3	0.6	0.0	70.0	0.0	89.0
Sub-total (2016)	134133.5	0.0	25232.0	99456.0	9279.3	166.3	0.0	814.9	2.3	0.0	400.1	0.2	861.8
<b>2017</b>													
Jan	675.2	0.0	0.0	432.0	237.9	5.3	0.0	79.5	1.0	0.0	70.0	0.0	79.7
Feb	927.7	0.0	0.0	768.0	125.6	34.0	0.0	70.5	0.6	0.0	84.0	0.0	81.4
Mar	1856.7	0.0	0.0	1280.0	466.9	109.8	0.0	62.8	0.4	0.0	98.0	0.0	148.5
Apr	642.4	0.0	0.0	160.0	324.9	157.5	0.0	87.5	0.7	0.0	175.0	0.0	102.5
May	1118.2	0.0	0.0	528.0	416.4	173.7	0.0	118.3	0.0	0.0	280.0	0.0	139.0
Jun	650.0	0.0	0.0	0.0	451.6	198.4	0.0	199.7	1.4	0.0	350.0	0.0	98.7
Jul	1762.0	0.0	0.0	0.0	1466.6	295.4	0.0	36.9	1.2	0.0	244.0	0.0	164.2
Aug	1231.5	0.0	0.0	0.0	867.5	364.0	0.0	50.9	0.9	0.0	59.0	0.0	186.9
Sep	1681.7	0.0	0.0	0.0	1342.0	339.7	0.0	52.3	0.7	0.0	77.0	0.0	265.3
Oct	483.6	0.0	0.0	0.0	242.5	241.1	0.0	374.8	0.6	0.0	24.1	0.0	128.5
Nov	822.8	0.0	0.0	0.0	344.5	478.3	0.0	948.5	0.7	0.0	140.0	0.2	219.1
Dec	601.3	0.0	0.0	0.0	236.2	365.1	0.0	903.6	0.8	0.0	320.0	0.0	241.9



Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Sub-total (2017)	12453.0	0.0	0.0	3168.0	6522.6	2762.4	0.0	2985.3	8.9	0.0	1921.1	0.2	1855.5
<b>2018</b>													
Jan	1015.3	0.0	0.0	0.0	574.1	441.2	0.0	773.3	1.5	0.0	100.0	0.0	183.6
Feb	847.6	0.0	0.0	0.0	608.3	239.3	0.0	34.0	1.0	0.0	25.0	0.0	154.9
Mar	1507.0	0.0	0.0	0.0	1102.1	404.9	0.0	39.5	1.5	0.0	120.0	0.0	264.1
Apr	2942.8	0.0	0.0	0.0	2542.4	400.4	0.0	60.1	0.3	0.0	100.0	0.0	252.5
May	2109.2	0.0	0.0	0.0	1593.3	515.9	0.0	37.0	0.4	0.0	70.0	0.0	311.4
Jun	1697.6	0.0	0.0	0.0	1162.4	535.2	0.0	47.0	0.3	0.0	105.0	0.0	188.2
Jul	945.5	0.0	0.0	0.0	646.1	299.4	0.0	15.2	0.4	0.0	150.0	0.0	277.6
Aug	730.8	0.0	0.0	0.0	461.4	269.4	0.0	0.0	0.0	0.0	40.0	0.0	109.1
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct	1193.1	0.0	0.0	0.0	895.7	297.5	0.0	129.3	2.7	0.0	200.0	0.0	116.6
Nov	1608.9	0.0	0.0	0.0	841.1	767.7	0.0	45.8	1.1	0.0	245.0	0.0	213.9
Dec	1313.8	0.0	0.0	170.4	341.9	801.5	0.0	256.7	0.8	0.0	180.0	0.0	198.2
Sub-total (2018)	15911.4	0.0	0.0	170.4	10768.7	4972.3	0.0	1437.9	9.9	0.0	1335.0	0.0	2270.2
<b>2019</b>													
Jan	1632.5	0.0	0.0	153.6	572.3	906.6	0.0	192.1	0.8	0.0	40.0	0.0	303.9
Feb	618.5	0.0	0.0	0.0	397.4	221.2	0.0	43.4	1.2	0.0	20.0	0.0	429.7
Mar	1555.1	0.0	0.0	441.6	920.2	193.2	0.0	31.8	0.0	0.0	20.0	0.0	645.2
Apr	327.4	0.0	0.0	0.0	127.3	200.2	0.0	48.9	1.3	0.0	300.0	0.9	477.4
May	712.8	0.0	0.0	361.9	116.7	234.3	0.0	81.0	0.8	0.0	320.0	0.0	531.1
Jun	219.9	0.0	0.0	0.0	95.6	124.4	0.0	123.4	0.5	0.0	350.0	0.0	448.0
Jul	445.8	0.0	0.0	0.0	171.6	274.1	0.0	57.1	1.1	0.0	300.0	0.6	553.1
Aug	692.6	0.0	0.0	55.2	354.1	283.3	0.0	1.5	0.0	0.0	0.0	0.0	596.8
Sep	549.4	0.0	0.0	72.0	218.2	259.2	0.0	46.7	0.0	0.0	420.0	0.0	560.5
Oct	373.0	0.0	0.0	0.0	204.4	168.6	0.0	102.4	0.0	0.0	450.0	0.4	657.7
Nov	681.1	0.0	0.0	192.0	263.0	226.1	0.0	36.8	0.7	0.0	380.0	0.0	659.8
Dec	727.5	0.0	0.0	240.0	341.0	146.5	0.0	105.7	0.8	0.0	345.0	0.0	682.3
Sub-total (2019)	8535.5	0.0	0.0	1516.3	3781.6	3237.7	0.0	870.8	7.1	0.0	2945.0	1.9	6545.5
<b>2020</b>													
Jan	404.3	0.0	0.0	0.0	351.1	53.2	0.0	133.2	0.8	0.0	335.0	0.0	523.7

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Sub-total (2020)	404.3	0.0	0.0	0.0	351.1	53.2	0.0	133.2	0.8	0.0	335.0	0.0	523.7
<b>Total</b>	<b>247698.0</b>	<b>0.0</b>	<b>25232.0</b>	<b>142172.1</b>	<b>69102.0</b>	<b>11191.9</b>	<b>0.0</b>	<b>6344.6</b>	<b>29.0</b>	<b>0.0</b>	<b>6936.2</b>	<b>3.2</b>	<b>12190.3</b>

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)

Note:

- 0 tonnes, 92.61 tonnes, 258.44 tonnes, 53.24 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Fill Bank at Tuen Mun Area 38, Fill Bank at Tseung Kwan O Area 137 and Sorting Facilities at Tseung Kwan O Area 137 respectively in the reporting month.

- For inert C&D materials reused in other projects, the projects refer to (1) Green Valley; (2) Advance Works for Shek Wu Hui Sewage Treatment Works (3) Design and Construction of Kai Tak Cable Tunnel, CLP; (4) MTR Contract 1002 Whampoa Station and Overrun Tunnel; (5) CEDD Tuen Mun Area 54 Contract No. CV/2015/03; (6) Union Construction Ltd.'s site; (7) Foundation Works at Marriot Hotel at Ocean Park.(8) Ming Tai warehouses (9) No.1 Plantation Road; (10) L1 Lyric Theatre

**L1**



**Table I-2: Monthly Waste Flow Table for L1**

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
<b>2016</b>													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	36.9	0.2	1.5	0.0	0.0	15.2
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.5	0.4	1.5	0.0	7.6	191.6
<b>2017</b>													
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0
Jun	476.0	0.0	0.0	341.0	129.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Jul	3419.0	0.0	0.0	804.0	2615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Aug	3730.9	0.0	0.0	1377.5	2353.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Sep	2108.2	0.0	0.0	1133.5	974.7	0.0	0.0	34.6	0.2	0.0	0.0	0.0	10.8
Oct	9159.0	0.0	0.0	7868.0	1291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.3
Nov	5095.4	0.0	0.0	4352.0	725.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	38.8
Dec	3856.2	0.0	0.0	3076.0	780.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	8.4
Sub-total (2017)	63093.1	0.0	0.0	19051.0	44018.7	23.4	0.0	187.1	0.7	0.0	0.0	3.8	137.3

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
<b>2018</b>													
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4837.3	0.0	0.0	4641.2	109.2	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19021.9	0.0	0.0	11301.0	7564.7	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104165.3	0.0	0.0	79811.6	24348.4	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62987.1	0.0	0.0	51284.4	11697.1	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449532.1	0.0	0.0	368984.8	80293.2	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
<b>2019</b>													
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.4	0.0	0.0	8569.4	10742.0	0.0	337.8	64.5	0.0	0.0	0.0	0.0	36.3
Apr	28559.9	0.0	0.0	21280.3	7279.6	0.0	0.0	32.6	0.0	0.8	0.0	0.0	24.9
May	45418.0	0.0	0.0	11200.6	34217.4	0.0	0.0	27.4	0.2	0.5	0.0	0.0	33.7
Jun	66763.1	0.0	0.0	24009.7	42742.5	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36606.6	0.0	0.0	1632.7	34947.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2512.9	0.0	0.0	0.0	2485.1	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4103.2	0.0	0.0	0.0	4074.2	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6954.9	0.0	0.0	0.0	6928.7	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5319.2	0.0	0.0	0.0	5289.0	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Dec	6236.8	0.0	0.0	0.0	6236.8	0.0	0.0	70.6	0.0	0.0	0.0	0.0	98.9
Sub-total (2019)	318234.9	0.0	0.0	153666.0	164418.8	150.1	938.9	788.8	0.6	4.6	0.0	0.6	959.0
<b>2020</b>													
Jan	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	10.6	0.0	0.0	0.0	0.0	65.7
Sub-total (2020)	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	10.6	0.0	0.0	0.0	0.0	65.7
<b>Total</b>	<b>949088.8</b>	<b>0.0</b>	<b>0.0</b>	<b>541701.9</b>	<b>406959.4</b>	<b>427.5</b>	<b>1492.8</b>	<b>1990.6</b>	<b>2.2</b>	<b>8.5</b>	<b>0.0</b>	<b>12.5</b>	<b>2297.3</b>

Note:  
- 2,358.04 tonnes and 4,731.88 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively in the reporting month.

**L2**





## **J. Environmental Mitigation Measures – Implementation Status**

**Table J-1: Environmental Mitigation Measures Implementation Status**

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
<b>Air Quality Impact (Construction)</b>				
2.1 & 10.3.1	<p><b>General Dust Control Measures</b></p> <p>Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)</p>	✓	✓	✓
2.1 & 10.3.1	<p><b>Best Practice For Dust Control</b></p> <p>The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:</p> <p><i>Good Site Management</i></p> <ul style="list-style-type: none"> <li>• Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.</li> </ul> <p><i>Disturbed Parts of the Roads</i></p> <ul style="list-style-type: none"> <li>• Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> <li>• Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul> <p><i>Exposed Earth</i></p>	Rem	✓	✓
		✓	✓	✓
		✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</li> </ul>	N/A	N/A	N/A
	<i>Loading, Unloading or Transfer of Dusty Materials</i>			
	<ul style="list-style-type: none"> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>	✓	✓	✓
	<i>Debris Handling</i>			
	<ul style="list-style-type: none"> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	✓	✓	✓
	<i>Transport of Dusty Materials</i>			
	<ul style="list-style-type: none"> <li>Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.</li> </ul>	✓	✓	✓
	<i>Wheel washing</i>			
	<ul style="list-style-type: none"> <li>Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	✓	✓	✓
	<i>Use of vehicles</i>			
	<ul style="list-style-type: none"> <li>The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.</li> </ul>	✓	✓	✓
	<i>Site hoarding</i>			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.</li> </ul>	✓	✓	✓
2.1 & 10.3.1	<p><b>Best Practicable Means for Cement Works (Concrete Batching Plant)</b></p> <p>The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:</p> <p>Exhaust from Dust Arrestment Plant</p> <ul style="list-style-type: none"> <li>Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection</li> </ul> <p>Emission Limits</p> <ul style="list-style-type: none"> <li>All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke</li> </ul> <p>Engineering Design/Technical Requirements</p> <ul style="list-style-type: none"> <li>As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions</li> </ul>	N/A	N/A	N/A
-	<p><b>Non-Road Mobile Machinery (NRMM):</b></p> <p>All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.</p>	✓	✓	Obs
<b>Noise Impact (Construction)</b>				
3.1 & 10.4.1	<p><b>Good Site Practice</b></p> <p>Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:</p>			



EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum</li> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> <li>mobile plant should be sited as far away from NSRs as possible; and</li> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	✓	✓	✓
3.1 & 10.4.1	<p><b>Adoption of Quieter PME</b></p> <p>The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in <b>Table 4.26</b> in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.</p>	✓	✓	✓
3.1 & 10.4.1	<p><b>Use of Movable Noise Barriers</b></p> <p>Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.</p>	N/A	✓	✓
3.1 & 10.4.1	<p><b>Use of Noise Enclosure/ Acoustic Shed</b></p> <p>The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.</p>	N/A	✓	✓
3.1 & 10.4.1	<p><b>Use of Noise Insulating Fabric</b></p> <p>Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.</p>	N/A	✓	✓
3.1 &	<p><b>Scheduling of Construction Works outside School Examination Periods</b></p>			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
10.4.1	During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A	N/A
<b>Water Quality Impact (Construction)</b>				
4.1 & 10.5.1	<p><b>Construction site runoff and drainage</b></p> <p>The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:</p> <ul style="list-style-type: none"> <li>At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction;</li> <li>Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction.</li> <li>All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> </ul>	✓	Obs/Rem	✓
		✓	✓	✓
		✓	Obs	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> </ul>	Rem	✓	✓
	<ul style="list-style-type: none"> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.</li> </ul>	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<p><b>Barging facilities and activities</b></p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p> <ul style="list-style-type: none"> <li>All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;</li> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A	N/A	N/A
4.1 & 10.5.1	<p><b>Sewage effluent from construction workforce</b></p> <p>Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.</p>	✓	✓	✓
4.1 & 10.5.1	<p><b>General construction activities</b></p> <ul style="list-style-type: none"> <li>Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used.</li> <li>Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.</li> </ul>	✓	✓	✓
<b>Waste Management Implications (Construction)</b>				
6.1 &	<b>Good Site Practices</b>			



EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
10.7.1	<p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> <li>• Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site</li> <li>• Training of site personnel in proper waste management and chemical handling procedures</li> <li>• Provision of sufficient waste disposal points and regular collection of waste</li> <li>• Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> <li>• Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> <li>• Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&amp;D materials is not anticipated</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<p><b>Waste Reduction Measures</b></p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>• Sort inert C&amp;D material to recover any recyclable portions such as metals</li> <li>• Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> <li>• Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force</li> <li>• Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials</li> </ul>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<p><b>Inert and Non-inert C&amp;D Materials</b></p> <p>In order to minimise impacts resulting from collection and transportation of inert C&amp;D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&amp;D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.</p> <ul style="list-style-type: none"> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> <li>Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&amp;D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&amp;D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD.</li> <li>The C&amp;D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</li> <li>In order to monitor the disposal of inert and non-inert C&amp;D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction &amp; Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.</li> </ul>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
6.1 & 10.7.1	<p><b>Chemical Waste</b></p> <ul style="list-style-type: none"> <li>If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the “Code of Practice on the Packaging Labelling and Storage of Chemical Wastes”. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li> <li>Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<p><b>General Refuse</b></p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&amp;D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&amp;D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	✓	✓	✓
<b>Land Contamination (Construction)</b>				

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
7.1 & 10.8.1	<p>The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> <li>• To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> <li>• Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site;</li> <li>• Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> <li>• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> <li>• Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> <li>• Truck bodies and tailgates should be sealed to stop any discharge;</li> <li>• Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;</li> <li>• Speed control for trucks carrying contaminated materials should be exercised;</li> </ul>	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A



EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
	<ul style="list-style-type: none"> <li>Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and</li> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	N/A	N/A	N/A
<b>Ecological Impact (Construction)</b>				
No mitigation measure is required.				
<b>Landscaping and Visual Impact (Construction)</b>				
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		M+ Museum	L1	L2
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A	N/A
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A	N/A	N/A

- N/A - Not Applicable
- ✓ - Implemented
- Obs - Observed
- Rem - Reminder

## **K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions**

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 31 October 2015 for M+ Museum main works and 1 March 2016 for Lyric Theatre Complex) to the end of the reporting month and are summarised in the **Table K-1** and **Table K-2** below respectively.

**Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for M+ Museum Main Works**

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 31 October 2015 to end of the reporting month	8	1	0

**Table K-2: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex**

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 1 March 2016 to end of the reporting month	10	0	0