



Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit
(EM&A) Report for September 2017

October 2017

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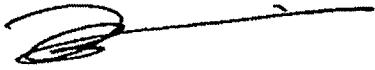
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(EM&A) Report for September 2017**

October 2017

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

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12 Oct 2017

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Contents

Executive Summary	1
1 Introduction	3
1.1 Background	3
1.2 Project Organisation	3
1.3 Environmental Status in the Reporting Period	3
1.4 Summary of EM&A Requirements	4
2 Impact Monitoring Methodology	6
2.1 Introduction	6
2.2 Air Quality	6
2.2.1 Monitoring Parameters, Frequency and Duration	6
2.2.2 Monitoring Locations	6
2.2.3 Monitoring Equipment	6
2.2.4 Monitoring Methodology	7
2.3 Noise	8
2.3.1 Monitoring Parameters, Frequency and Duration	8
2.3.2 Monitoring Location	9
2.3.3 Monitoring Equipment	9
2.3.4 Monitoring Methodology	9
2.4 Landscape and Visual	10
2.4.1 Monitoring Program	10
3 Monitoring Results	11
3.1 Impact Monitoring	11
3.2 Air Quality Monitoring	11
3.2.1 1-hour TSP	11
3.2.2 24-hour TSP	11
3.3 Noise Monitoring	12
3.4 Landscape and Visual Impact	12
4 Environmental Site Inspection	13
4.1 Site Inspection	13
4.1.1 M+ Museum	13
4.1.2 Lyric Theatre Complex	16
4.2 Advice on the Solid and Liquid Waste Management Status	16
4.2.1 M+ Museum	17
4.2.2 Lyric Theatre Complex	17
4.3 Status of Environmental Licenses and Permits	17
4.3.1 M+ Museum	17

4.3.2	Lyric Theatre Complex	18
4.4	Recommended Mitigation Measures	18
4.4.1	M+ Museum	18
4.4.2	Lyric Theatre Complex	19
5	Compliance with Environmental Permit	20
6	Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	21
6.1	Record on Non-compliance of Action and Limit Levels	21
6.2	Record on Environmental Complaints Received	21
6.3	Record on Notifications of Summons and Successful Prosecution	21
7	Future Key Issues	22
7.1	Construction Works for the Coming Month(s)	22
7.1.1	M+ Museum	22
7.1.2	Lyric Theatre Complex	22
7.2	Key Issues for the Coming Month	22
7.2.1	M+ Museum	22
7.2.2	Lyric Theatre Complex	22
7.3	Monitoring Schedule for the Coming Month	23
8	Conclusions and Recommendations	24
8.1	Conclusions	24
8.2	Recommendations	24
Figure 1	Site Layout Plan and Monitoring Stations	25
Appendices		26
A.	Project Organisation	27
B.	Tentative Construction Programme	28
C.	Action and Limit Levels for Construction Phase	29
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	30
E.	Monitoring Schedule	31
F.	Calibration Certifications	32
G.	Graphical Plots of the Monitoring Results	33

H. Meteorological Data Extracted from Hong Kong Observatory	34
I. Waste Flow table	35
J. Environmental Mitigation Measures – Implementation Status	36
K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	37

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 Foundation Works (Contract No.: CC/2015/3A/014) 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 both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 September to 30 September 2017.

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 8, 14, 21 and 28 September 2017 for M+ Museum and 6, 13, 20 and 27 September 2017 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.

Record of Complaints

No environmental complaints were recorded in the reporting month.

Record of Notification of Summons and Successful Prosecutions

No notification of summons and successful prosecution were recorded in the reporting month.

Future Key Issues

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

- Construction of B2 Walls & Columns to B1 Slab;
- Construction of B1/F Columns & Walls to G/F Slab;
- Construction of G/F Columns & Walls to 1/F & 1M/F Slab;
- Construction of 1/F Columns & Walls to 2/F Slab and 2/F Columns & Walls to 3/F Slab;

- Construction of 3/F Columns & Walls to 4/F Slab and 7/F Columns & Walls to 8/F Slab;
- T5, T2, T1, T3 & T4 Mega Truss Construction & Removal of Falseworks;
- External Works for installation for pipe works & Sheet pipe;
- Construct Vent Duct (Roof) at ICP & SPS;
- Fair face elements at Portion A25 of ICP & SPS;
- Waterproofing & backfilling on B1/F & RF;
- ABWF & MEP fix.

The major site works at Lyric Theatre Complex scheduled to be commissioned in the coming month include:

- Pre-grouting adjacent to seawall;
- Pipe pile construction;
- Bulk excavation;
- Steel Struct ELS Installation.

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 Foundation Works (Contract No.: CC/2015/3A/014) 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. 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 both the main works of M+ Museum and foundation works of Lyric Theatre Complex conducted from 1 September to 30 September 2017. 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:

- Construction of 3/F, 2/F, 1M/F, 1/F, G/F and LG/F;

- Construction of column from LGF to GF, G/F to 1/F, 1/F to 1M/F, 1M/F to 2/F, 2/F to 3/F;
- Encasement of Mega Trusses;
- ABWF work at DCS;
- E&M work at B2/F and SPS;
- Construction of B1 slab and beam and Roof Beam and slab at ICP;
- Sheet Pile Installation for seawater outfall pipe between Ch0+66 to Ch0+108;
- Storm Drainage at Portion M45;
- Sewerage work at Portion L08;
- West core wall up to 4/F.

During the reporting period, construction works at Lyric Theatre Complex undertaken include:

- Pre-grouting adjacent to seawall;
- Pipe pile construction;
- Bulk excavation;
- Preparation works for ELS;
- Steel Struct ELS Installation.

The Construction Works Programmes of M+ Museum and Lyric Theatre Complex are provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** 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	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least once every 6 days
	1-Hour TSP	AM2A – Austin Road West opposite to The Harbourside Tower 1	At least 3 times every 6 days
Noise	Leq, 30 minutes	NM1A- Podium level of The Harbourside Tower 1	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. 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 AM2A 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)
AM2A	Austin Road West opposite to The Harbourside Tower 1

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
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)
Calibrator	TE-5025A (Orifice I.D.: 2454)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 276020 and 2Z6240)

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 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/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.
- HVSSs 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)	$L_{eq}(30\text{ min})$, $L_{90}(30\text{ min})$ & $L_{10}(30\text{ min})$	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	Podium floor of 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	Calibrator
NM1A	Rion NL-18 (Serial No.00360030)	Rion NC-73 (Serial No.10486660)

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 AM2A 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	05-Sep-17	10:40	176	183	191	56-198	273.7	500
	11-Sep-17	10:40	180	189	198			
	15-Sep-17	8:00	82	56	71			
	21-Sep-17	10:48	62	56	71			
	27-Sep-17	10:40	80	88	97			
AM2A	05-Sep-17	10:55	179	189	199	69-207	274.2	500
	11-Sep-17	10:57	183	192	207			
	15-Sep-17	8:12	75	90	86			
	21-Sep-17	11:02	71	69	75			
	27-Sep-17	10:55	82	90	99			

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2A 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	05-Sep-17	10:42	66	32-82	143.6	260
	11-Sep-17	10:42	32			
	15-Sep-17	08:02	47			
	21-Sep-17	10:50	82			
AM2A	27-Sep-17	10:42	49	42-77	151.1	260
	05-Sep-17	10:52	77			
	11-Sep-17	10:52	42			
	15-Sep-17	08:14	64			
	21-Sep-17	11:00	68			
	27-Sep-17	10:52	66			

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	Leq (30 mins), dB(A)	Limit Level for Leq (dB(A))
05-Sep-17	14:00	14:30	69	
11-Sep-17	14:00	14:30	69	
21-Sep-17	14:00	14:30	69	
27-Sep-17	14:00	14:30	69	75

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).

Construction works were extended to holidays on 10 and 17 September 2017. In accordance with the EM&A Manual, additional monitoring was carried out during the restricted hours on 10 and 17 September 2017. All the L_{eq} (5 mins) is 69 dB(A). Major noise source includes traffic. Construction Noise Permits for the works carried out during restricted hours were obtained and listed in **Table 4.3**.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 14 and 28 September 2017 for M+ Museum and 13 and 27 September 2017 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 are 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 8, 14, 21 and 28 September 2017. The joint site inspection with IEC, ET, ER and Contractor was held on 21 September 2017. 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 4.1**.

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)
17 Aug 2017	Air quality	NRMM label of a breaker was observed weathering. The contractor was reminded to replace the label.	On 24 Aug, the contractor was reminded to provide NRMM label for the plant as soon as possible. On 31 Aug, the contractor has not yet provided NRMM label for the machinery, nevertheless they have idled the machinery (not in use). On 5 Sep 2017, the contractor has provided NRMM label for the excavator.	5 Sep 2017
31 Aug 2017	Air quality	The haul road near DCS was observed dry and dusty. The contractor was reminded to enhance water spraying for dust suppression.	The haul road was observed wet.	5 Sep 2017
31 Aug 2017	Air quality	The colour of the NRMM label for the excavator was observed faded. The contractor was reminded to replace the NRMM label.	A new NRMM label was provided for the excavator.	8 Sep 2017
31 Aug 2017	Waste management	The drip tray of the air compressor near seafront was found not large enough. The contractor was reminded to provide a drip tray with proper size. The lubricant next to the air compressor and oil drum near RDE were found without drip tray. The contractor was reminded to provide drip trays for the lubricant and oil drum.	The air compressor near seafront was removed and drip tray was provided for oil drum and lubricant.	8 Sep 2017
31 Aug 2017	Waste management	Construction waste was found accumulated at B1. The contractor was reminded to remove the construction waste regularly.	The construction waste at B1 was removed.	8 Sep 2017
31 Aug 2017	Air quality	The forklift at RDE B1 was observed without NRMM label. The contractor was reminded to provide NRMM label for the forklift.	The NRMM label was provided for the forklift.	8 Sep 2017
8 Sep 2017	Waste	Chemical containers without drip tray were observed at dangerous	The contractor has removed the	14 Sep 2017

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
	management	goods store. The Contractor was reminded to provide drip tray accordingly.	chemical containers off site.	
8 Sep 2017	Water quality	The layout plan displayed at each Wetsep unit required updated. The Contractor was reminded to display a new updated layout plan for each Wetsep unit.	The contractor has displayed the updated drainage layout plans at wetseps.	14 Sep 2017
8 Sep 2017	Waste management	Oil spill and oil drum without drip tray were observed at B1 near CSF. The Contractor was reminded to clear the oil spill (as chemical waste) and provide drip tray for the oil drum.	The contractor has removed the oil spill and provided drip tray for the oil drum.	14 Sep 2017
8 Sep 2017	Air quality	The NRMM label for a bobcat at B2 was damaged. The Contractor was reminded to provide a new NRMM label.	The contractor has provided NRMM label for the bobcat.	14 Sep 2017
8 Sep 2017	Waste management	Loose general refuse was observed on the ground at B1 and at B2. The Contractor was reminded to remove the refuse regularly.	The contractor has removed the refuse on the ground at B1 and B2.	14 Sep 2017
8 Sep 2017	Water quality	Effluent quality at ICP sampling point was checked and was found visually clear and within proper pH range. No effluent was observed at Wetsep No. 5 and therefore no sample could be obtained for checking.	N/A	N/A
8 Sep 2017	Water quality	Flooding was observed at B2 (ST-14B). The Contactor was reminded to direct accumulated water to Wetsep unit for treatment prior to discharge from site.	The contractor has provided pump and removed the accumulated water.	14 Sep 2017
8 Sep 2017	Waste management	Spillage of fuel was observed during refuelling of a site plant at SPS which was not conducted properly. The Contractor was reminded to clear the fuel spill, use proper container to store fuel and display ULSD label on this container.	The contractor has cleared the fuel spill and confirmed the fuel is ULSD.	14 Sep 2017
14 Sep 2017	Air quality	Cement bags were observed without proper cover at RDE B1. The contractor was reminded to properly cover them with impervious sheeting to reduce dust impact.	The contractor has removed the cement bags at RDE B1.	18 Sep 2017
14 Sep 2017	Waste management	Construction waste was found accumulated at RDE B1 and B2. The contractor was reminded to regularly remove construction waste.	The contractor has removed the accumulated construction waste at RDE B1 and B2.	18 Sep 2017
14 Sep 2017	Waste management	Chemicals and oil drums at B2 and haul road next to RDE were found without drip tray. The contractor was reminded to provide drip trays for the chemical containers and oil drums.	The contractor has either removed the chemicals or provided drip tray for the oil drums.	20 Sep 2017
14 Sep 2017	Water quality	Part of the earth bund at seafront was found not yet finished off with a layer of cement. The contractor was reminded to cover it with a layer of cement.	The contractor has finished off the remaining part of the seafront earth bund with a layer of cement.	18 Sep 2017

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
14 Sep 2017	Water quality	Effluent quality at ICP sampling point and wetsep no.5 was checked. The ICP sample was found visually clear and within proper pH range. However, the sample at wetsep no.5 was found accumulated with suspended solids though no water was being discharged. The contractor was reminded to carry out regular maintenance at wetsep no.5 and sedimentation tank to avoid suspended solids accumulation when no site runoff is treated in wetsep.	The contractor has carried out maintenance and removed the suspended solids accumulated at wetsep no.5.	19 Sep 2017
21 Sep 2017	Air quality	NRMM label for an excavator was observed broken. The contractor was reminded to replace the NRMM label.	The excavator was exempted under the NRMM regulation, no NRMM label is required.	27 Sep 2017
21 Sep 2017	Waste management	General waste was observed accumulated on the ground. The contractor was reminded to regularly remove the general refuse.	The contractor has removed the construction waste on the ground.	27 Sep 2017
21 Sep 2017	Air quality	Cement bags were found without proper cover. The contractor was reminded to cover them with impervious sheeting to reduce dust impact.	The contractor has removed the cement bags.	27 Sep 2017
21 Sep 2017	Waste management	Oil stain, chemicals and oil drum without drip tray were found on haul road near RDE. The contractor was reminded to remove the oil stain and provide drip trays for the chemicals and oil drum.	The contractor has removed the oil stain, chemicals and oil drum.	28 Sep 2017
21 Sep 2017	Water quality	Effluent quality at ICP sampling point was checked. The sample was found visually clear when comparing with standard solution. However, the pH was found marginally higher than 9 (also from pH meter of wetsep no.4). The contractor was reminded to check and ensure the pH of the effluent within pH 6-9 as per the discharge license.	The contractor has checked the wetsep no. 4 and the pH is now within proper pH range.	28 Sep 2017
28 Sep 2017	Air quality	The contractor was reminded to cover the stockpile with impervious sheeting if it is not backfilled to reduce dust impact.	Follow-up status will be provided in the next reporting month	On-going
28 Sep 2017	Water quality	The contractor was reminded to check the pH meter of wetsep no. 4 as the reading was found a bit high, though within proper pH range.	Follow-up status will be provided in the next reporting month	On-going
28 Sep 2017	Noise	A hand-held breaker in use was found without noise label. The contractor was reminded to provide noise label for the breaker.	Follow-up status will be provided in the next reporting month	On-going
28 Sep 2017	Waste management	A drip tray on the haul road next to RDE was found accumulated with chemical mixture. The contractor was reminded to clean drip tray regularly.	Follow-up status will be provided in the next reporting month	On-going
28 Sep 2017	Water quality	Effluent quality at ICP sampling point and M+ wetsep was	N/A	N/A

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		checked. They were found visually clear when comparing with standard solution and within proper pH range.		

4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 6, 13, 20 and 27 September 2017. The joint site inspection with IEC, ET, ER and Contractor was held on 20 September 2017. 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**.

Table 4.2: Summary of Site Inspections and Recommendations for Lyric Theatre Complex

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
6 Sep 2017	Noise	The Contractor was reminded to place the noise barrier at suitable location in order to block the line-of-sight between noise sources (e.g. breaker) and nearby residential premises.	Additional acoustic blanket set up near the pile head trimming location.	9 Sep 2017
13 Sep 2017	Air quality	The colour of a NRMM label for a generator in Area L04 was faded. The Contractor was reminded to provide a new NRMM label showing the correct colour.	Replacement NRMM label has been provided.	19 Sep 2017
13 Sep 2017	Air quality	Dry haul road was observed at Area L07. The Contractor was reminded to increase water spraying frequency to avoid dust impact.	Regular water spray was provided for previously-observed road surface.	19 Sep 2017
20 Sep 2017	Air quality	The NRMM label for an excavator in Area L06 was missing. The Contractor was reminded to provide a replacement NRMM label.	The NRMM label was displayed at the excavator.	26 Sep 2017
20 Sep 2017	Waste Management	Air compressor was observed on bare ground in Area L05. The Contractor was reminded to provide a drip tray for this construction plant.	Air compressor still not in use. Drip tray stand-by and ready to deploy to the air compressor when it is in operation.	26 Sep 2017
20 Sep 2017	Waste Management	Drip tray for a mobile pump near CLP substation was suspected to be unplugged. Some liquid was also observed outside this drip tray. The Contractor was asked to plug the drip tray properly and clear the leaked liquid appropriately.	Leakage was cleaned and plug was provided.	26 Sep 2017
20 Sep 2017	Air quality	Some haul roads were dry. The Contractor was asked to ensure these are adequately provided with water spray.	Regular water spraying was provided for previously observed haul road surface.	26 Sep 2017

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, 11.01 tonnes, 653.81 tonnes and 677.18 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively, while 210.9 tonnes of general refuse were disposed of at SENT landfill. 52.3 tonnes of metals, 0.7 tonnes of paper/cardboard packaging, 0 tonne of plastic and 350.0 tonnes of timber were collected by recycling contractors in the reporting month. 0 tonne of inert C&D materials was reused on site. 0 tonne of inert C&D materials were reused in other projects and 339.7 tonnes of inert C&D materials were disposed to sorting facility. 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 M+ Museum in the reporting month are shown in **Appendix I**.

4.2.2 Lyric Theatre Complex

As advised by the Contractor, 752.7 and 221.99 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 and Tuen Mun Area 38 respectively, while 10.8 tonnes of general refuse were disposed of at SENT landfill. 34.6 tonne of metals, 0.2 tonne of paper/cardboard packaging, 0 tonne of plastic and 0 tonne of timber were collected by recycling contractors in the reporting month. 0 tonne of inert C&D materials was reused on site. 1133.5 tonnes of inert C&D materials were reused in other projects. 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 4.3 and Table 4.4**.

4.3.1 M+ Museum

Table 4.3: Status of Environmental Submissions, Licenses and Permits for M+ Museum

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
5213-217-H2913-45	05-Nov-15	--	Valid	--
Billing Account Construction Waste Disposal				
7023393	13-Oct-15	--	Account Active	--
Construction Noise Permit				
GW-RE0348-17	4-May 17	3-Nov-17	Valid	
Wastewater Discharge License				
WT00023633-2016	4-Mar-16	31-Mar-21	Valid	--
Notification under Air Pollution Control (Construction Dust) Regulation				
394083	7-Oct-15	--	Notified	--

4.3.2 Lyric Theatre Complex

Table 4.4: Status of Environmental Submissions, Licenses and Permits for Lyric Theatre Complex

Permit / License No. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
5213-217-G2347-39	17-Feb-16	--	Valid	--
Billing Account Construction Waste Disposal				
7024189	25-Jan-16	--	Account Active	--
Construction Noise Permit				
GW-RE0214-17	20-Mar-17	19-Sep-17	Valid till 19-Sep-17	
GW-RE0677-17	20-Sep-17	19-Mar-18	Valid	
Wastewater Discharge License				
WT00023648-2016	24-Jul-17	31-Mar-21	Valid	
Notification under Air Pollution Control (Construction Dust) Regulation				
398075	18-Jan-16	--	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

Chemical and Waste Management

- All chemical drum/ containers stored on site should be provided with drip trays of proper size.
- Any chemical/ fuel/ oil leakage should be removed.
- Regular removal of refuse/ construction waste on site.

Air Quality

- Maintain high standard of housekeeping to prevent emission of fugitive dust.
- Cement bags should be well covered by impervious sheeting to reduce dust impact.
- Stockpile if not backfilled should be covered with impervious sheeting to reduce dust impact.
- Proper NRMM labels should be displayed on the non-road mobile machineries.

Noise

- Provide noise emission labels for hand-held breakers (>10kg).

Water Quality

- Preventive measures, such as earth bund, pumps, sand bags, storage pits, should be in place near the seafront area to prevent overflow of any site runoff into the sea in case of rainstorms.
- Drainage layout plan should be displayed at wetseps for easy checking.
- Regular maintenance should be provided to wetsep units to ensure their treatment performance

4.4.2 Lyric Theatre Complex

Air Quality

- Enhance water spraying for haul roads to reduce dust impact.
- Proper NRMM labels should be provided for non-road mobile machinery.

Noise

- Noise mitigation measures should be provided to noisy works to reduce noise impact and block the line-of-sight between noise sources and nearby residential premises.

Chemical and Waste Management

- Drip trays should be provided for active generators and air compressors and plugged to prevent leakage of chemical waste.
- Any chemical leakage should be cleaned.

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 August 2017	14 September 2017

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 complaints were recorded 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 prosecution 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 scheduled to be commissioned in the coming month include:

- Construction of B2 Walls & Columns to B1 Slab;
- Construction of B1/F Columns & Walls to G/F Slab;
- Construction of G/F Columns & Walls to 1/F & 1M/F Slab;
- Construction of 1/F Columns & Walls to 2/F Slab and 2/F Columns & Walls to 3/F Slab;
- Construction of 3/F Columns & Walls to 4/F Slab and 7/F Columns & Walls to 8/F Slab;
- T5, T2, T1, T3 & T4 Mega Truss Construction & Removal of Falseworks;
- External Works for installation for pipe works & Sheet pipe;
- Construct Vent Duct (Roof) at ICP & SPS;
- Fair face elements at Portion A25 of ICP & SPS;
- Waterproofing & backfilling on B1/F & RF;
- ABWF & MEP fix.

7.1.2 Lyric Theatre Complex

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

- Pre-grouting adjacent to seawall;
- Pipe pile construction;
- Bulk excavation;
- Steel Struct ELS Installation.

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 foundation works 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 Leq, 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.

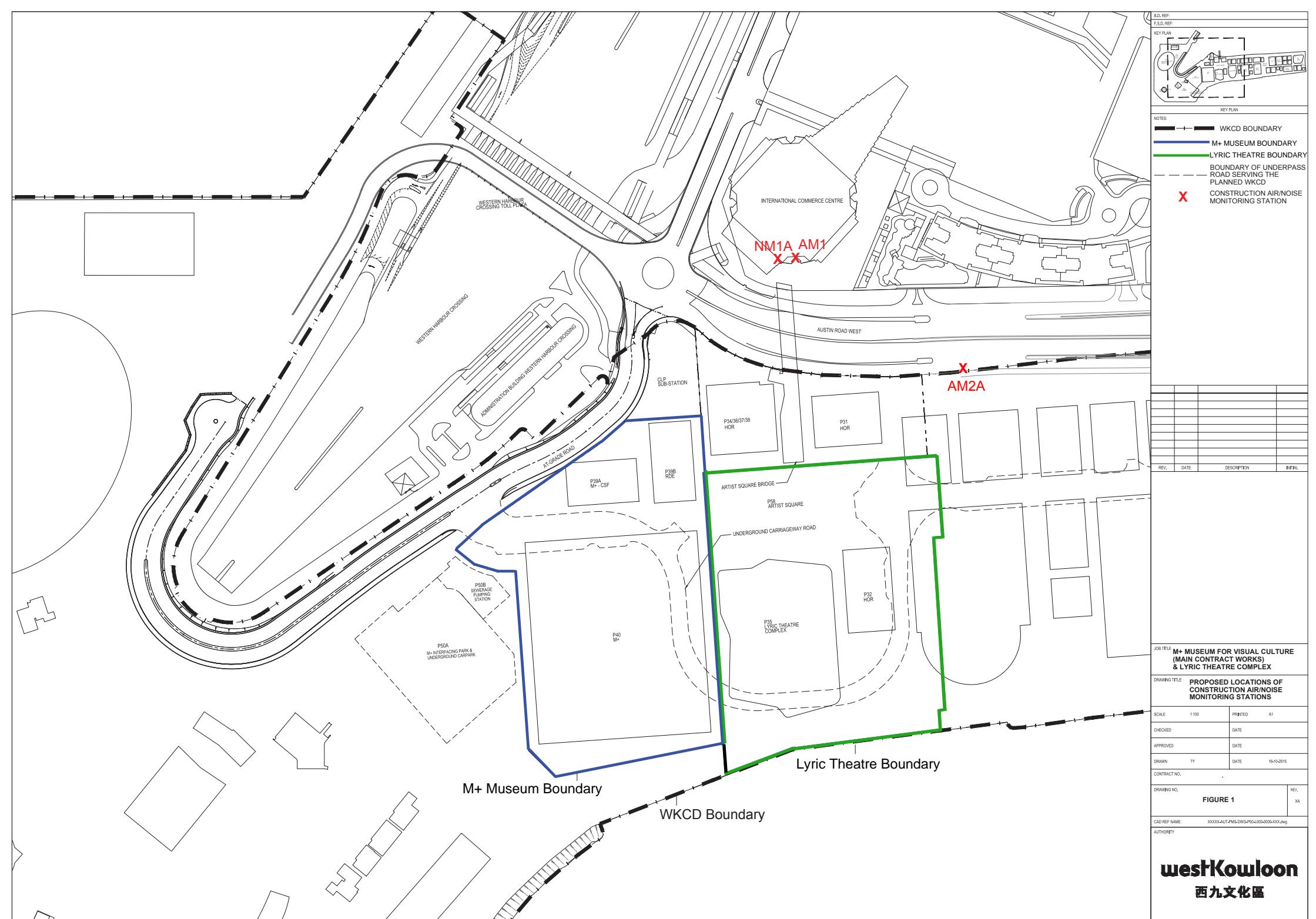
No environmental complaints were recorded in the reporting month. No notifications of summons or successful prosecution were received during the reporting month.

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



Appendices

A. Project Organisation	27
B. Tentative Construction Programme	28
C. Action and Limit Levels for Construction Phase	29
D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	30
E. Monitoring Schedule	31
F. Calibration Certifications	32
G. Graphical Plots of the Monitoring Results	33
H. Meteorological Data Extracted from Hong Kong Observatory	34
I. Waste Flow table	35
J. Environmental Mitigation Measures – Implementation Status	36
K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	37

A. Project Organisation

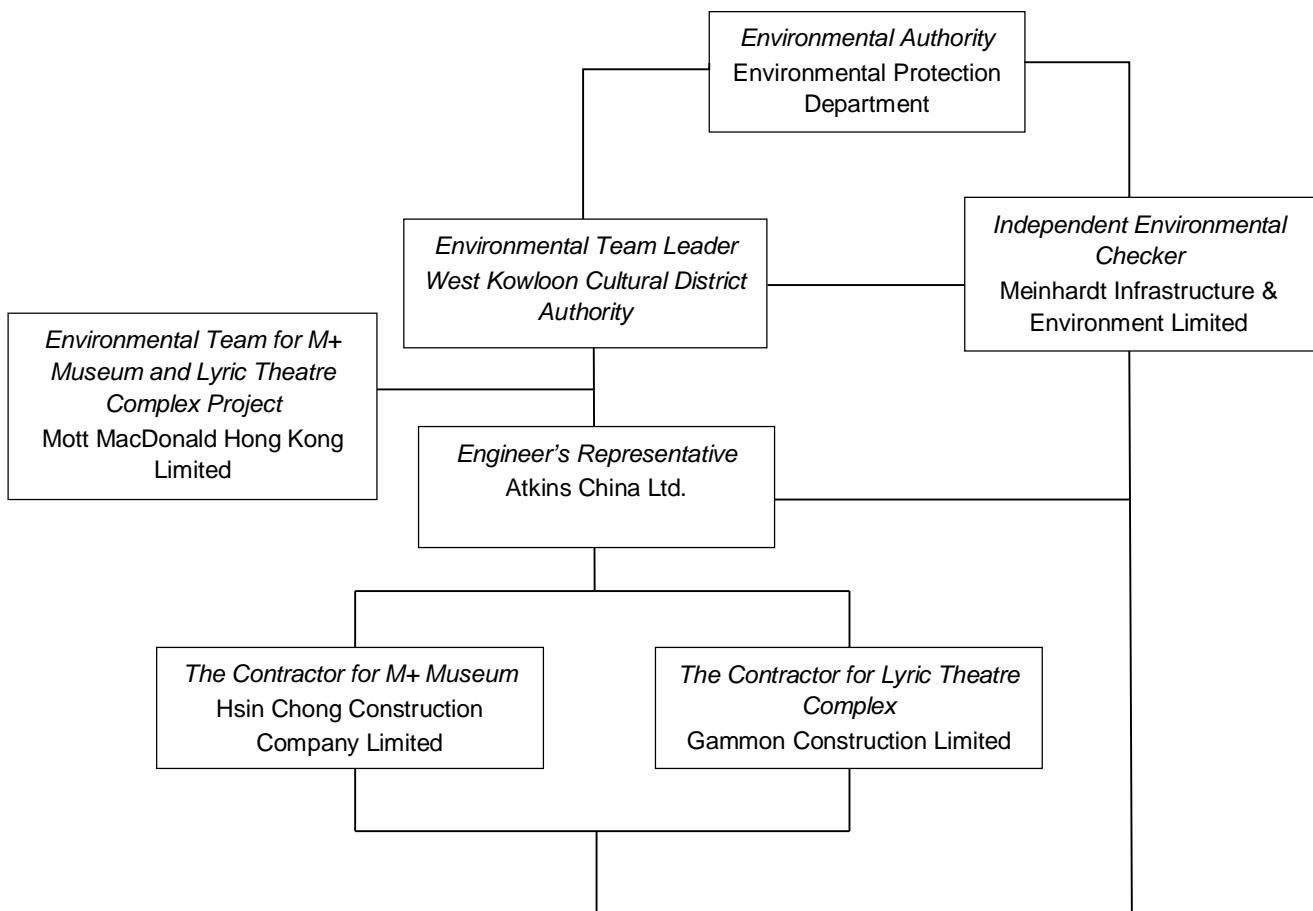


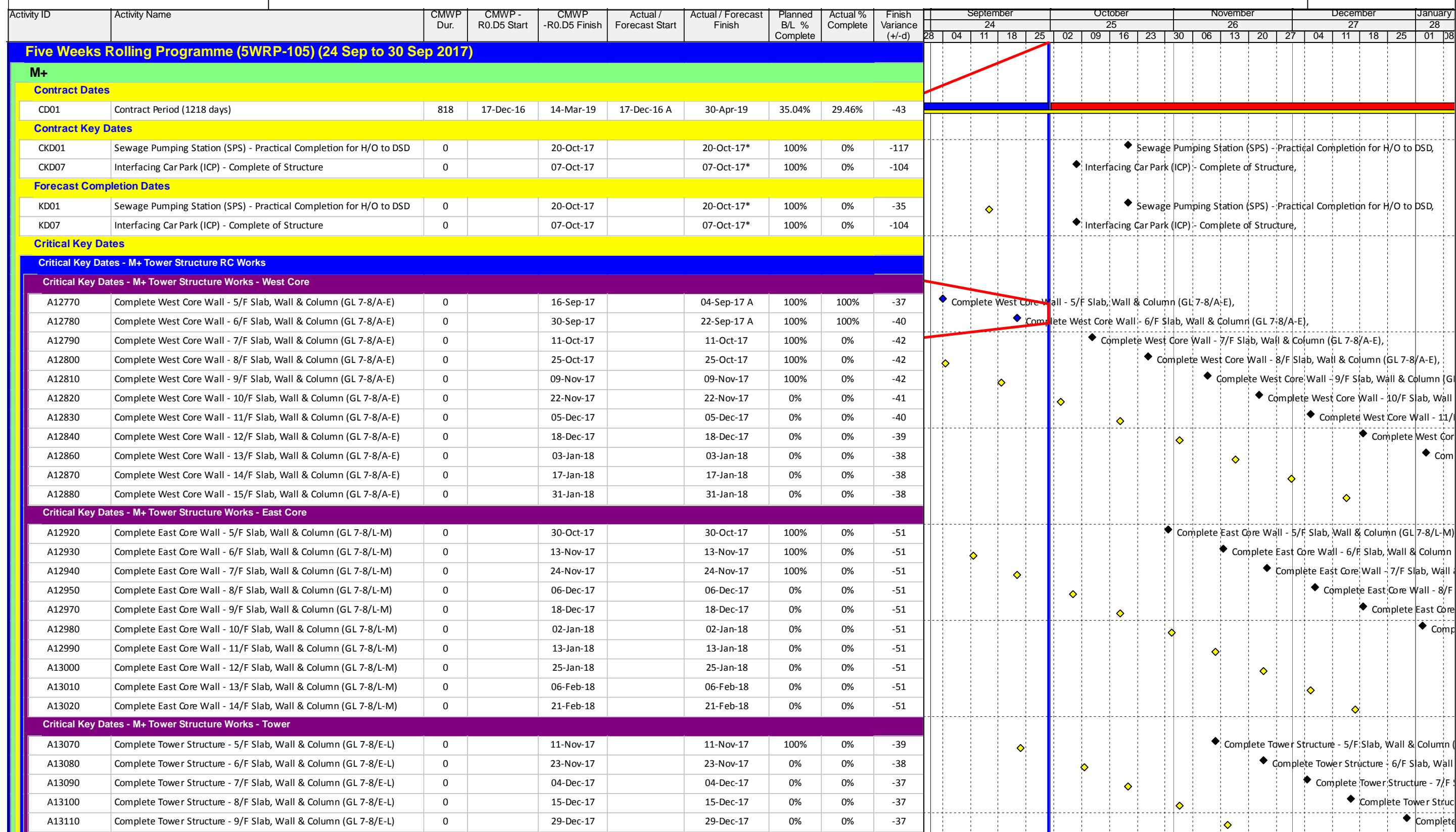
Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Resident Engineer	Mr. Benny Ip	9379 5614
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Mr. Fredrick Leong	2859 1739
Hsin Chong Construction Company Limited	Environmental Manager	Mr. Andy Leung	9016 2503
Gammon Construction Limited	Environmental Manager	Ms. Michelle Tang	9267 8866
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr Brandon Wong	2828 5875
West Kowloon Cultural District Authority	Senior Environmental Specialist	Mr. Brian Tam	2200 0059

B. Tentative Construction Programme

M+ Museum

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September



West Kowloon Cultural District Authority

M+ Contractor's Main Works Programme CMWP - (Rev. 0 - Draft 5)



Date	Revision	Checked	Approved
30-Jun-17	3MRP_M21_30 Jun 17	Chris S. Chis Chau / Ricky Lau	
31-Jul-17	3MRP_M22_31 July 17	Chris S. Chis Chau / Ricky Lau	
31-Aug-17	3MRP_M23_31 August...	Chris S. Chis Chau / Ricky Lau	
30-Sep-17	3MRP_M24_30 Sept 17	Sam T. Chis Chau / Ricky Lau	

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January					
										24	25	26	27	28	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
A42800	Erect TC6-2 @ Zone E - 3/F Slab	5	30-Nov-17	05-Dec-17	30-Nov-17	05-Dec-17	0%	0%	-42																										
A42810	Inspection and ICE & RPE Certification	2	06-Dec-17	07-Dec-17	06-Dec-17	07-Dec-17	0%	0%	-42																										
M+ Podium Structure RC Works																																			
Podium Structure Zone A, M, N & H (Non-deferred Zone Parallel w/ Trusses)																																			
Zone A Structure																																			
B1 Level (updated as of 16 Dec 2016)																																			
A10965	Zone A5 Wall & Column (Industrial Space)	21	23-Jun-17	18-Jul-17	21-Jun-17 A	07-Oct-17	100%	95%	-96																										
B1-GF Level																																			
A11020	Zone A5 Wall, Column & GF Slab (GL 3-6/D-H)	15	03-Apr-17	24-Apr-17	03-Apr-17 A	03-Oct-17	100%	95%	-105																										
GF-1F-1MF Level																																			
A11030	Zone A1 Wall, Column & 1MF Slab (GL 2-3/A-D)	21	13-Feb-17	08-Mar-17	13-Feb-17 A	04-Oct-17	100%	90%	-107																										
A11060	Zone A4 Wall, Column & 1MF Slab (GL 2-3/D-H)	21	21-Jul-17	14-Aug-17	10-Jul-17 A	13-Oct-17	100%	55%	-90																										
A11070	Zone A5 Wall, Column & 1MF Slab (GL 3-6/D-H)	12	04-Oct-17	18-Oct-17	04-Oct-17	18-Oct-17	100%	0%	-102																										
1MF-2F Level																																			
A11080	Zone A1 Wall, Column & 2F Slab (GL 2-3/A-D)	21	19-Sep-17	16-Oct-17	11-Sep-17 A	21-Oct-17	100%	35%	-100																										
A11160	Zone A4 Wall, Column & 2F Slab (GL 2-3/D-H)	16	14-Oct-17	02-Nov-17	14-Oct-17	02-Nov-17	100%	0%	-85																										
A11220	Zone A5 Wall, Column & 2F Slab (GL 3-6/D-H)	14	19-Oct-17	04-Nov-17	28-Sep-17 A	16-Oct-17	100%	0%	-76																										
2F-3F Level																																			
A11320	Zone A1 Wall, Column & 3F Slab (GL 2-3/A-D)	21	23-Oct-17	16-Nov-17	23-Oct-17	16-Nov-17	100%	0%	-100																										
A11530	Zone A4 Wall, Column & 3F Slab (GL 2-3/D-H)	20	03-Nov-17	25-Nov-17	03-Nov-17	25-Nov-17	100%	0%	-80																										
A11620	Zone A5 Wall, Column & 3F Slab @GL 3-6/D-H	18	03-Nov-17	23-Nov-17	03-Nov-17	23-Nov-17	100%	0%	-85																										
Zone H Structure																																			
GL-3F Level (Structure Remains Propped before Zone K construction complete)																																			
A10880	Podium Wall, Column & GF slab (GL 11-14/L-M)	82	03-Oct-16	10-Jan-17	03-Oct-16 A	05-Sep-17 A	100%	100%	-86																										
A10890	Podium Wall, Column & 1F slab (GL 11-14/L-M)	10	03-Oct-17	14-Oct-17	24-Jul-17 A	14-Sep-17 A	100%	100%	-81																										
A10900	Podium Wall, Column & 1MF slab (GL 11-14/L-M)	10	03-Oct-17	14-Oct-17	30-Sep-17 A	13-Oct-17	100%	10%	-90																										
A10910	Podium Wall, Column & 2F slab (GL 11-14/L-M)	9	14-Oct-17	24-Oct-17	14-Oct-17	24-Oct-17	100%	0%	-85																										
A17315	Construct B1 Slab (GL 11-12/G-M & GL 11-14/M)	12	09-Sep-17	22-Sep-17	18-Aug-17 A	12-Oct-17	100%	30%	-107																										
A17325	Podium Wall, Column & LGF slab (GL 11-13/H-L)	10	13-Oct-17	24-Oct-17	13-Oct-17	24-Oct-17	100%	0%	-107																										
A17330	Podium Wall, Column & GF slab (GL 11-14/H-L, Staircase & M15 Boun	12	25-Oct-17	08-Nov-17	25-Oct-17	08-Nov-17	100%	0%	-81																										
A17340	Podium Wall, Column & 1F slab (GL 11-14/H-L)	13	09-Nov-17	23-Nov-17	09-Nov-17	23-Nov-17	100%	0%	-78																										
A17350	Podium Wall, Column & 1MF slab (GL 11-14/H-L)	13	24-Nov-17	08-Dec-17	24-Nov-17	08-Dec-17	100%	0%	-76																										
A17360	Podium Wall, Column & 2F slab (GL 11-14																																		

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Zone B @5-7/E-J																												
A16290	Stage 1 - Construct wall, column & B1 slab (GL 5-7/E-J)	8	08-Dec-17	16-Dec-17	08-Dec-17	16-Dec-17	0%	0%	-40																			
A16300	Stage 2 - Construct wall, column & GF slab (GL 5-7/E-J)	8	18-Dec-17	28-Dec-17	18-Dec-17	28-Dec-17	0%	0%	-40																			
A16310	Stage 3 - Construct hanging columns, wall, cols & 1MF slab (GL 5-7/E-J)	10	29-Dec-17	10-Jan-18	29-Dec-17	10-Jan-18	0%	0%	-40																			
A16320	Stage 4 - Construct wall, column & 2F slab (GL 5-7/E-J)	10	11-Jan-18	22-Jan-18	11-Jan-18	22-Jan-18	0%	0%	-40																			
A16330	Stage 5 - Construct wall, column & 3F slab (GL 5-7/E-J)	10	23-Jan-18	02-Feb-18	23-Jan-18	02-Feb-18	0%	0%	-40																			
A16340	Stage 6 - De-prop Zone B (GL 5-7/E-J)	3	03-Feb-18	06-Feb-18	03-Feb-18	06-Feb-18	0%	0%	-40																			
A48010	Complete Zone B Structure	0		06-Feb-18		06-Feb-18	0%	0%	-40																			
Zone Q @5-7/D-F																												
A16350	Stage 1 - Construct wall, column & B1 slab (GL 5-7/D-F)	8	08-Dec-17	16-Dec-17	08-Dec-17	16-Dec-17	0%	0%	-40																			
A16360	Stage 2 - Construct wall, column & GF slab (GL 5-7/D-F)	8	18-Dec-17	28-Dec-17	18-Dec-17	28-Dec-17	0%	0%	-40																			
A16370	Stage 3 - Construct hanging columns, wall, cols & 1MF slab (GL 5-7/D-F)	8	29-Dec-17	08-Jan-18	29-Dec-17	08-Jan-18	0%	0%	-40																			
A16380	Stage 4 - Construct wall, column & 2F slab (GL 5-7/D-F)	8	09-Jan-18	17-Jan-18	09-Jan-18	17-Jan-18	0%	0%	-40																			
A16390	Stage 5 - Construct wall, column & 3F slab (GL 5-7/D-F)	8	18-Jan-18	26-Jan-18	18-Jan-18	26-Jan-18	0%	0%	-40																			
A16400	Stage 6 - De-prop Zone Q (GL 5-7/D-F)	3	27-Jan-18	30-Jan-18	27-Jan-18	30-Jan-18	0%	0%	-40																			
A16410	Complete Zone Q Structure	0		30-Jan-18		30-Jan-18	0%	0%	-40																			
Podium Structure Zone K, L & P (Deferred Zone Near T1 & T2)																												
Zone K & L External & Carriageway Walls (GL 8-11/M) @M14																												
A59190	Construct tunnel base slab (GL 11/L-M)	10	29-Jul-17	07-Aug-17	19-Jul-17 A	07-Sep-17 A	100%	100%	-76																			
A59200	Construct B1 slab (GL 9-11/K-L)	12	25-Sep-17	10-Oct-17	18-Sep-17 A	10-Oct-17	100%	10%	-78																			
A59210	Construct carriageway wall CWA (GL 11-11.5/L)	12	11-Oct-17	24-Oct-17	20-Sep-17 A	12-Oct-17	100%	5%	-68																			
A59260	Construct column, wall & GF slab (GL 8-12/M)	18	22-Aug-17	11-Sep-17	03-Jul-17 A	14-Oct-17	100%	97%	-52																			
A59270	Complete Podium External Wall to GF & H/O Area M14	0		14-Oct-17		14-Oct-17	100%	0%	-52																			
Zone K & L @GL 8-11/H-M (K, L & P de-prop together)																												
A16420	Stage 7 - Propping & Construct 1MF beam & slab (GL 8-10/H-L)	15	08-Dec-17	27-Dec-17	08-Dec-17	27-Dec-17	0%	0%	-40																			
A16430	Stage 8 - Construct column, wall & 2F slab (GL 8-10/H-M)	13	28-Dec-17	12-Jan-18	28-Dec-17	12-Jan-18	0%	0%	-40																			
A16435	Stage 8 - 2F Concrete Curing	7	13-Jan-18	19-Jan-18	13-Jan-18	19-Jan-18	0%	0%	-50																			
A16440	Stage 9 - Construct GF slab (GL 8-11/H-M)	12	20-Jan-18	02-Feb-18	20-Jan-18	02-Feb-18	0%	0%	-40																			
A16450	Stage 9 - Propping & Construct column, wall & 3F slab (GL 8-11/H-M)	20	20-Jan-18	12-Feb-18	20-Jan-18	12-Feb-18	0%	0%	-40																			
A16460	Stage 10 - Construct GF hanger column & wall (GL 8-11/H-M)	12	03-Feb-18	20-Feb-18	03-Feb-18	20-Feb-18	0%	0%	-40																			
Zone P @GL 11-8/7-5																												
A16590	Stage 1 - Construct retaining wall (GL 8-10/D-G)	15	08-Dec-17	27-Dec-17	08-Dec-17	27-Dec-17	0%	0%	-40																			
A16595	Stage 1 - Construct B1 Slab (GL 7-11/D-J)	15	28-Dec-17	15-Jan-18	28-Dec-17	15-Jan-18	0%	0%	-40																			
A16620	Stage 2 - Propping & Construct 1MF slab (GL 10-11/D-H)	13	16-Jan-18	30-Jan-18	16-Jan-18	30-Jan-18	0%	0%	-40																			
A16630	Stage 2 - Propping & Construct 1MF slab (GL 8-10/D-H)	13	31-Jan-18	14-Feb-18	31-Jan-18	14-Feb-18	0%	0%	-40																			

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December										
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08
A57710	Lower down 18M truss (6 nos.)	1	18-Nov-17	18-Nov-17	18-Nov-17	18-Nov-17	100%	0%	-40																				
A57720	Disconnect strand jack system at T1 & T2	1	18-Nov-17	18-Nov-17	18-Nov-17	18-Nov-17	100%	0%	-40																				
A57730	Remove T1 & T2 working platform	3	20-Nov-17	22-Nov-17	20-Nov-17	22-Nov-17	33.33%	0%	-40																				
A57740	Remove 18M truss (6 nos.)	4	23-Nov-17	27-Nov-17	23-Nov-17	27-Nov-17	0%	0%	-40																				
A57750	Remove 9M truss (12 nos.)	4	28-Nov-17	01-Dec-17	28-Nov-17	01-Dec-17	0%	0%	-40																				
A57760	Remove Non-Typical truss	4	02-Dec-17	06-Dec-17	02-Dec-17	06-Dec-17	0%	0%	-40																				
A57770	Remove Spreader Beam	3	05-Dec-17	07-Dec-17	05-Dec-17	07-Dec-17	0%	0%	-40																				
Removal of T3 Falseworks																													
Pre-setup Works																													
A18410	Install additional beam for strengthening T3 9M trusses	6	20-Oct-17	26-Oct-17	20-Oct-17	26-Oct-17	100%	0%	-42																				
A18420	Remove Strand Jack on Strand Jack Support at T1 & T2	5	27-Oct-17	02-Nov-17	27-Oct-17	02-Nov-17	100%	0%	-27																				
A18430	Set up Strand Jack Support System at T3	4	03-Nov-17	07-Nov-17	03-Nov-17	07-Nov-17	50%	0%	-27																				
Removal Works for T3 Falseworks																													
A57990	Install Strand Jack on Strand Jack Support at T3	5	07-Oct-17	12-Oct-17	07-Oct-17	12-Oct-17	0%	0%	-1																				
A58000	Lift up 100mm	1	13-Oct-17	13-Oct-17	13-Oct-17	13-Oct-17	0%	0%	-1																				
A58010	Remove PERI Tower Jack head	2	14-Oct-17	16-Oct-17	14-Oct-17	16-Oct-17	0%	0%	-1																				
A58020	Remove PERI Tower (12 nos.)	3	17-Oct-17	19-Oct-17	17-Oct-17	19-Oct-17	0%	0%	-1																				
A58030	Lower down 9M truss (6 nos.)	1	20-Oct-17	20-Oct-17	20-Oct-17	20-Oct-17	0%	0%	-1																				
A58040	Disconnect strand jack system at T3	1	21-Oct-17	21-Oct-17	21-Oct-17	21-Oct-17	0%	0%	-1																				
A58050	Remove T3 working platform	3	23-Oct-17	25-Oct-17	23-Oct-17	25-Oct-17	0%	0%	-1																				
A58070	Remove 9M truss (12 nos.)	4	26-Oct-17	31-Oct-17	26-Oct-17	31-Oct-17	0%	0%	-1																				
A58080	Remove Non-Typical truss	4	26-Oct-17	31-Oct-17	26-Oct-17	31-Oct-17	0%	0%	-1																				
A58090	Remove Spreader Beam	2	01-Nov-17	02-Nov-17	01-Nov-17	02-Nov-17	0%	0%	-1																				
Removal of T4 Falseworks																													
Pre-setup Works																													
A18470	Install additional beam for strengthening T4 9M trusses	6	08-Nov-17	14-Nov-17	08-Nov-17	14-Nov-17	0%	0%	-27																				
A18480	Remove Strand Jack on Strand Jack Support at T3	5	15-Nov-17	20-Nov-17	15-Nov-17	20-Nov-17	0%	0%	-20																				
A18490	Set up Strand Jack Support System at T4	4	21-Nov-17	24-Nov-17	21-Nov-17	24-Nov-17	0%	0%	-20																				
Removal Works for T4 Falseworks																													
A58100	Installation of Strand Jack on Strand Jack Support at T4	5	25-Nov-17	30-Nov-17	25-Nov-17	30-Nov-17	0%	0%	-20																				
A58110	Lift up 100mm	1	01-Dec-17	01-Dec-17	01-Dec-17	01-Dec-17	0%	0%	-20																				
A58120	Remove PERI Tower Jack head	2	02-Dec-17	04-Dec-17	02-Dec-17	04-Dec-17	0%	0%	-20																				
A58130	Remove PERI Tower (12 nos.)	3	05-Dec-17	07-Dec-17	05-Dec-17	07-Dec-17	0%	0%	-20																				
A58140	Lower down 9M truss (6 nos.)	1	08-Dec-17	08-Dec-17	08-Dec-17	08-Dec-17	0%	0%	-20																				
A58150	Disconnect strand jack system	1	09-Dec-17	09-Dec-17	09-Dec-17	09-Dec-17	0%	0%	-20																				
A58160	Remove T4 working platform	3	11-Dec-17	13-Dec-17	11-Dec-17	13-Dec-17	0%	0%	-20																				
A58180	Remove 9M truss (12 nos.)	4	14-Dec-17	18-Dec-17	14-Dec-17	18-Dec-17	0%	0%	-20																				
A58190	Remove Non-Typical truss	4																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December									
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
A18035	Concrete Curing 4/F Slab @GL L-H	3	12-Oct-17	14-Oct-17	12-Oct-17	14-Oct-17	100%	0%	-50																			
A18040	Scaffolding for 4/F Slab RC Works @GL H-E	4	03-Oct-17	07-Oct-17	29-Sep-17 A	04-Oct-17	100%	50%	-38																			
A18050	Rebar fixing of 4/F Slab @GL H-E	3	07-Oct-17	10-Oct-17	07-Oct-17	10-Oct-17	100%	0%	-38																			
A18160	Formworks of 4/F Slab @GL H-E	1	06-Oct-17	06-Oct-17	06-Oct-17	06-Oct-17	100%	0%	-38																			
A18165	Concreting 4/F Slab @GL H-E	1	12-Oct-17	12-Oct-17	12-Oct-17	12-Oct-17	100%	0%	-39																			
A18175	Concrete Curing 4/F Slab @GL H-E	3	13-Oct-17	15-Oct-17	13-Oct-17	15-Oct-17	100%	0%	-48																			
Area of Modular Towers																												
A57480	Scaffolding for 4/F Slab RC Works @GL L-H	3	18-Oct-17	20-Oct-17	18-Oct-17	20-Oct-17	100%	0%	-39																			
A57490	Rebar fixing of 4/F Slab @GL L-H	3	21-Oct-17	24-Oct-17	21-Oct-17	24-Oct-17	100%	0%	-40																			
A57500	Formworks of 4/F Slab @GLL-H	1	25-Oct-17	25-Oct-17	25-Oct-17	25-Oct-17	100%	0%	-40																			
A57510	Concreting 4/F Slab @GL L-H	1	26-Oct-17	26-Oct-17	26-Oct-17	26-Oct-17	100%	0%	-40																			
A57520	Concrete Curing 4/F Slab @GL L-H	3	27-Oct-17	29-Oct-17	27-Oct-17	29-Oct-17	100%	0%	-49																			
A57530	Scaffolding for 4/F Slab RC Works @GL H-E	4	19-Oct-17	23-Oct-17	19-Oct-17	23-Oct-17	100%	0%	-39																			
A57540	Rebar fixing of 4/F Slab @GL H-E	3	25-Oct-17	27-Oct-17	25-Oct-17	27-Oct-17	100%	0%	-40																			
A57550	Formworks of 4/F Slab @GL H-E	1	30-Oct-17	30-Oct-17	30-Oct-17	30-Oct-17	100%	0%	-40																			
A57560	Concreting 4/F Slab @GL H-E	1	31-Oct-17	31-Oct-17	31-Oct-17	31-Oct-17	100%	0%	-40																			
A57570	Concrete Curing 4/F Slab @GL H-E	3	01-Nov-17	03-Nov-17	01-Nov-17	03-Nov-17	100%	0%	-50																			
RC Works for 2/F Slab & Beams (6 nos. of Beam)																												
Area Between Modular Towers																												
A18065	Scaffolding for 2/F Slab & Beam @GL L-H	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-43																			
A18070	Rebar fixing of 2/F Slab & Beam @GL L-H	3	07-Oct-17	10-Oct-17	07-Oct-17	10-Oct-17	100%	0%	-43																			
A18080	Formworks of 2/F Slab & Beam @GL L-H	2	11-Oct-17	12-Oct-17	11-Oct-17	12-Oct-17	100%	0%	-43																			
A18090	Concreting 2/F Slab & Beam @GL L-H	1	13-Oct-17	13-Oct-17	13-Oct-17	13-Oct-17	100%	0%	-43																			
A18100	Concrete Curing 2/F Slab & Beam @GL L-H	3	14-Oct-17	16-Oct-17	14-Oct-17	16-Oct-17	100%	0%	-52																			
A18105	Scaffolding for 2/F Slab & Beam @GL H-E	3	07-Oct-17	10-Oct-17	07-Oct-17	10-Oct-17	100%	0%	-43																			
A50340	Rebar fixing of 2/F Slab & Beam @GL H-E	3	11-Oct-17	13-Oct-17	11-Oct-17	13-Oct-17	100%	0%	-43																			
A50350	Formworks of 2/F Slab & Beam @GL H-E	2	14-Oct-17	16-Oct-17	14-Oct-17	16-Oct-17	100%	0%	-43																			
A50360	Concreting 2/F Slab & Beam @GL H-E	1	17-Oct-17	17-Oct-17	17-Oct-17	17-Oct-17	100%	0%	-43																			
A50370	Concrete Curing 2/F Slab & Beam @GL H-E	3	18-Oct-17	20-Oct-17	18-Oct-17	20-Oct-17	100%	0%	-53																			
Area of Modular Towers																												
A57580	Scaffolding for 2/F Slab & Beam @GL L-H	3	17-Oct-17	19-Oct-17	17-Oct-17	19-Oct-17	100%	0%	-43																			
A57590	Rebar fixing of 2/F Slab & Beam @GL L-H	3	23-Oct-17	25-Oct-17	23-Oct-17	25-Oct-17	100%	0%	-43																			
A57600	Formworks of 2/F Slab & Beam @GL L-H	2	20-Oct-17	21-Oct-17	20-Oct-17	21-Oct-17	100%	0%	-43																			
A57610	Concreting 2/F Slab & Beam @GL L-H	1	26-Oct-17	26-Oct-17	26-Oct-17	26-Oct-17	100%	0%	-43																			
A57620	Concrete Curing 2/F Slab & Beam @GL L-H	3	27-Oct-17	29-Oct-17	27-Oct-17	29-Oct-17	100%	0%	-52																			
A57630	Scaffolding for 2/F Slab & Beam @GL H-E	3	20-Oct-17	23-Oct-17	20-Oct-17	23-Oct-17	100%	0%	-43																			
A57640	Rebar fixing of 2/F Slab & Beam @GL H-E																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

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										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08				
A18180	Falseworks for 3/F Beams RC Works @GL H-E	5	21-Oct-17	26-Oct-17	21-Oct-17	26-Oct-17	100%	0%	-41																								
A18190	Rebar fixing of 3/F Beams @GL H-E	5	27-Oct-17	02-Nov-17	27-Oct-17	02-Nov-17	100%	0%	-41																								
A18200	Formworks of 3/F Beams @GL H-E	3	03-Nov-17	06-Nov-17	03-Nov-17	06-Nov-17	100%	0%	-41																								
A18230	Concreting 3/F Beams @GL H-E	1	07-Nov-17	07-Nov-17	07-Nov-17	07-Nov-17	100%	0%	-41																								
A18240	Concrete Curing 3/F Beams @GL H-E	5	08-Nov-17	12-Nov-17	08-Nov-17	12-Nov-17	100%	0%	-52																								
RC Works for 3/F Wall, Column & Upper Slab (In-fill)																																	
A50455	Scaffolding for 3/F Upper Slab RC Works	6	16-Oct-17	21-Oct-17	16-Oct-17	21-Oct-17	100%	0%	-40																								
A50460	Rebar fixing of 3/F Upper Slab	10	23-Oct-17	03-Nov-17	23-Oct-17	03-Nov-17	100%	0%	-38																								
A50470	Formworks of 3/F Upper Slab	12	31-Oct-17	13-Nov-17	31-Oct-17	13-Nov-17	100%	0%	-38																								
A50480	Concreting 3/F Upper Slab	1	14-Nov-17	14-Nov-17	14-Nov-17	14-Nov-17	100%	0%	-38																								
A50490	Concrete Curing 3/F Upper Slab	3	15-Nov-17	17-Nov-17	15-Nov-17	17-Nov-17	60%	0%	-46																								
RC Works for 3/F Wall, Column & Lower Slab (In-fill)																																	
A17915	Scaffolding for 3/F Wall, Columns & Lower Slab RC Works	3	18-Nov-17	21-Nov-17	18-Nov-17	21-Nov-17	0%	0%	-38																								
A17920	Rebar fixing of 3/F Wall, Columns & Lower Slab	8	22-Nov-17	30-Nov-17	22-Nov-17	30-Nov-17	0%	0%	-38																								
A17930	Formworks of 3/F Wall, Columns & Lower Slab	8	29-Nov-17	07-Dec-17	29-Nov-17	07-Dec-17	0%	0%	-36																								
A17940	Concreting 3/F Wall, Columns & Lower Slab	1	08-Dec-17	08-Dec-17	08-Dec-17	08-Dec-17	0%	0%	-36																								
A17950	Concrete Curing 3/F Wall, Columns & Lower Slab	3	09-Dec-17	11-Dec-17	09-Dec-17	11-Dec-17	0%	0%	-43																								
RC Works for 1M/F In-fill Slab																																	
A50375	Construct retaining wall (GL 7-8/G-H)	15	08-Dec-17	27-Dec-17	08-Dec-17	27-Dec-17	0%	0%	-40																								
A50380	Scaffolding for 1M/F Slab RC Works	6	28-Dec-17	04-Jan-18	28-Dec-17	04-Jan-18	0%	0%	-40																								
A50385	Rebar fixing of 1M/F In-fill Slab	6	05-Jan-18	11-Jan-18	05-Jan-18	11-Jan-18	0%	0%	-40																								
A50390	Formworks of 1M/F In-fill Slab	6	12-Jan-18	18-Jan-18	12-Jan-18	18-Jan-18	0%	0%	-40																								
A50400	Concreting 1M/F In-fill Slab	1	19-Jan-18	19-Jan-18	19-Jan-18	19-Jan-18	0%	0%	-40																								
A50410	Concrete Curing 1M/F In-fill Slab	5	20-Jan-18	24-Jan-18	20-Jan-18	24-Jan-18	0%	0%	-50																								
Spiral Staircase Construction																																	
A59020	Approval of Shop Drawings	0		16-Sep-17		14-Sep-17 A	100%	100%	-29																								
A59030	Staircase Fabrication	30	03-Oct-17	08-Nov-17	27-Sep-17 A	03-Nov-17	100%	10%	-40																								
A59040	Trial Assembly	6	04-Nov-17	10-Nov-17	04-Nov-17	10-Nov-17	100%	0%	-40																								
A59050	Installation of cast-in bolts	30	03-Oct-17	08-Nov-17	03-Oct-17	08-Nov-17	100%	0%	-43																								
A59060	Indtallation of Staircase	20	10-Nov-17	02-Dec-17	10-Nov-17	02-Dec-17	45%	0%	-40																								
M+ Tower Structure RC Works																																	
Tower Structure - West Core Wall (Non-deferred Zone M) @ GL 7-8/A-E																																	
A42960	4F-5F Wall, Column & 5F slab (GL 7-8/A-E)	13	22-Aug-17	05-Sep-17	31-Jul-17 A	04-Sep-17 A	100%	100%	-37																								
A42970	5F-6F Wall, Column & 6F slab (GL 7-8/A-D)	14	13-Sep-17	29-Sep-17	05-Sep-17 A	22-Sep-17 A	100%	100%	-40																								

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Tower Structure - East Core Wall (Non-deferred Zone N) @ GL 7-8/L-M																												
A43000	4F-5F Wall, Column & 5F slab (GL 7-8/L-M)	12	16-Oct-17	30-Oct-17	16-Oct-17	30-Oct-17	100%	0%	-51																			
A43010	5F-6F Wall, Column & 6F slab (GL 7-8/L-M)	12	31-Oct-17	13-Nov-17	31-Oct-17	13-Nov-17	100%	0%	-51																			
A43020	6F-7F Wall, Column & 7F slab (GL 7-8/L-M)	10	14-Nov-17	24-Nov-17	14-Nov-17	24-Nov-17	100%	0%	-51																			
A43030	7F-8F Wall, Column & 8F slab (GL 7-8/L-M)	10	25-Nov-17	06-Dec-17	25-Nov-17	06-Dec-17	70%	0%	-51																			
A43040	8F-9F Wall, Column & 9F slab (GL 7-8/L-M)	10	07-Dec-17	18-Dec-17	07-Dec-17	18-Dec-17	0%	0%	-51																			
A43060	Complete East Core Wall Structure to 9F slab	0			18-Dec-17			0%	0%	-51																		
Tower Structure - East Core Wall @ GL 7-8/L-M (TC2 TIE TO WCW)																												
A37655	9F-10F Wall, Column & 10F slab (GL 7-8/L-M)	10	19-Dec-17	02-Jan-18	19-Dec-17	02-Jan-18	0%	0%	-51																			
A37660	10F-11F Wall, Column & 11F slab (GL 7-8/L-M)	10	03-Jan-18	13-Jan-18	03-Jan-18	13-Jan-18	0%	0%	-51																			
A37670	11F-12F Wall, Column & 12F slab (GL 7-8/L-M)	10	15-Jan-18	25-Jan-18	15-Jan-18	25-Jan-18	0%	0%	-51																			
A37690	12F-13F Wall, Column & 13F slab (GL 7-8/L-M)	10	26-Jan-18	06-Feb-18	26-Jan-18	06-Feb-18	0%	0%	-51																			
A37700	13F-14F Wall, Column & 14F slab (GL 7-8/L-M)	10	07-Feb-18	21-Feb-18	07-Feb-18	21-Feb-18	0%	0%	-51																			
A37710	14F-15F Wall, Column & 15F slab (GL 7-8/L-M)	10	22-Feb-18	05-Mar-18	22-Feb-18	05-Mar-18	0%	0%	-51																			
Tower Structure (Deferred Zone F - 4F to RF) @ GL 7-8/E-L																												
Tower Structure-Deferred Zone F @ GL 7-8/E-L (TC2 TIE TO WCW)																												
A37760	4F-5F Wall, Column & 5F slab (GL 7-8/E-L)	11	31-Oct-17	11-Nov-17	31-Oct-17	11-Nov-17	100%	0%	-39																			
A37770	5F-6F Wall, Column & 6F slab (GL 7-8/E-L)	10	13-Nov-17	23-Nov-17	13-Nov-17	23-Nov-17	54.55%	0%	-38																			
A37780	6F-7F Wall, Column & 7F slab (GL 7-8/E-L)	9	24-Nov-17	04-Dec-17	24-Nov-17	04-Dec-17	0%	0%	-37																			
A37790	7F-8F Wall, Column & 8F slab (GL 7-8/E-L)	10	05-Dec-17	15-Dec-17	05-Dec-17	15-Dec-17	0%	0%	-37																			
A37800	8F-9F Wall, Column & 9F slab (GL 7-8/E-L)	10	16-Dec-17	29-Dec-17	16-Dec-17	29-Dec-17	0%	0%	-37																			
A37810	9F-10F Wall, Column & 10F slab (GL 7-8/E-L)	10	30-Dec-17	11-Jan-18	30-Dec-17	11-Jan-18	0%	0%	-37																			
A37820	10F-11F Wall, Column & 11F slab (GL 7-8/E-L)	10	12-Jan-18	23-Jan-18	12-Jan-18	23-Jan-18	0%	0%	-37																			
A37830	11F-12F Wall, Column & 12F slab (GL 7-8/E-L)	10	24-Jan-18	03-Feb-18	24-Jan-18	03-Feb-18	0%	0%	-37																			
A37840	12F-13F Wall, Column & 13F slab (GL 7-8/E-L)	10	13-Feb-18	27-Feb-18	13-Feb-18	27-Feb-18	0%	0%	-44																			
M+ Podium & Tower FAÇADE Preliminaries																												
SHOP DRAWING SUBMISSIONS FAÇADE SYSTEM & EMBEDS																												
SHOP DRAWING - Glass Wall with T Mullion																												
A51280	2nd Shopdrawing Submission - Review & Approval	21	19-Apr-17	09-May-17	19-Apr-17 A	30-Sep-17 A	100%	100%	-130																			
SHOP DRAWING - Metal Cladding FAC-LV-01a/FAC-LV-01b (Additional Scope)																												
A51420	2nd Shopdrawing Submission	14	01-Oct-17	14-Oct-17	01-Oct-17	14-Oct-17	100%	0%	-129																			
A51430	2nd Shopdrawing Submission - Review & Approval	21	15-Oct-17	04-Nov-17	15-Oct-17	04-Nov-17	100%	0%	-129																			
BD SUBMISSIONS FAÇADE SYSTEM & EMBEDS																												

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
A51970	1st Submission - Review & Approval by MJV	14	11-Apr-17	24-Apr-17	11-Apr-17 A	11-Sep-17 A	100%	100%	-111																		
A51980	2nd Submission	6	01-Oct-17	06-Oct-17	01-Oct-17	06-Oct-17	100%	0%	-130																		
A51990	2nd Submission - Review & Approval by MJV (w/ RSE Endorsement)	13	07-Oct-17	19-Oct-17	07-Oct-17	19-Oct-17	100%	0%	-129																		
A52000	Glass Wall with Ceramic & Precast Concrete Mullion - Submission to BD	0		19-Oct-17		19-Oct-17	100%	0%	-108																		
A52010	Glass Wall with Ceramic & Precast Concrete Mullion - BD Approval	59	20-Oct-17	17-Dec-17	20-Oct-17	17-Dec-17	100%	0%	-128																		
A52020	Glass Wall with Ceramic & Precast Concrete Mullion - Consent	30	18-Dec-17	16-Jan-18	18-Dec-17	16-Jan-18	100%	0%	-128																		
SHOPDRAWING SUBMISSIONS - FACADE DOORS																											
Facade Doors Package #1 - Glazed door between Ceramic Concrete Mullion - Total No. of Doors = 53																											
A52120	1st Shopdrawing Submission	67	01-Oct-17	06-Dec-17	01-Oct-17*	06-Dec-17	100%	0%	-134																		
A52130	1st Shopdrawing Submission - Review & Approval	21	07-Dec-17	27-Dec-17	07-Dec-17	27-Dec-17	100%	0%	-134																		
A52140	2nd Shopdrawing Submission	14	28-Dec-17	10-Jan-18	28-Dec-17	10-Jan-18	100%	0%	-134																		
A52160	2nd Shopdrawing Submission - Review & Approval	21	11-Jan-18	31-Jan-18	11-Jan-18	31-Jan-18	100%	0%	-134																		
Facade Doors Package #2 - Sliding door at L3 Storefront - Total No. of Doors = 4																											
A52170	1st Shopdrawing Submission	67	01-Oct-17	06-Dec-17	01-Oct-17*	06-Dec-17	100%	0%	-134																		
A52180	1st Shopdrawing Submission - Review & Approval	21	07-Dec-17	27-Dec-17	07-Dec-17	27-Dec-17	100%	0%	-134																		
A52190	2nd Shopdrawing Submission	14	28-Dec-17	10-Jan-18	28-Dec-17	10-Jan-18	100%	0%	-134																		
A52200	2nd Shopdrawing - Review & Approval	21	11-Jan-18	31-Jan-18	11-Jan-18	31-Jan-18	100%	0%	-134																		
Facade Doors Package #3 - Swing Door at L3 Cafe- Total No. of Doors = 1																											
A52210	1st Shopdrawing Submission	74	01-Oct-17	13-Dec-17	01-Oct-17*	13-Dec-17	100%	0%	-134																		
A52220	1st Shopdrawing Submission - Review & Approval	21	14-Dec-17	03-Jan-18	14-Dec-17	03-Jan-18	100%	0%	-134																		
A52230	2nd Shopdrawing Submission	14	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	100%	0%	-134																		
A52250	2nd Shopdrawing Submission - Review & Approval	21	18-Jan-18	07-Feb-18	18-Jan-18	07-Feb-18	100%	0%	-134																		
Facade Doors Package #4 - Swing Door mounted in GW with T Mullion - Total No. of Doors = 29																											
A52260	1st Shopdrawing Submission	74	01-Oct-17	13-Dec-17	01-Oct-17*	13-Dec-17	100%	0%	-134																		
A52270	1st Shopdrawing Submission - Review & Approval	21	14-Dec-17	03-Jan-18	14-Dec-17	03-Jan-18	100%	0%	-134																		
A52280	2nd Shopdrawing Submission	14	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	100%	0%	-134																		
A52290	2nd Shopdrawing Submission - Review & Approval	21	18-Jan-18	07-Feb-18	18-Jan-18	07-Feb-18	100%	0%	-134																		
Facade Doors Package #5 - Large double door at B1 Transformer Room - Total No. of Doors = 1																											
A52300	1st Shopdrawing Submission	81	01-Oct-17	20-Dec-17	01-Oct-17*	20-Dec-17	100%	0%	-134																		
A52310	1st Shopdrawing Submission - Review & Approval	21	21-Dec-17	10-Jan-18	21-Dec-17	10-Jan-18	100%	0%	-134																		
A52320	2nd Shopdrawing Submission	14	11-Jan-18	24-Jan-18	11-Jan-18	24-Jan-18	100%	0%	-134																		
A52340	2nd Shopdrawing Submission - Review & Approval	21	25-Jan-18</																								

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September		October		November		December		January														
										24	25	26	27	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
A54770	Perf MU - Testing & Report Submission of GW with Ceramic Mullion G	12	09-Feb-18	26-Feb-18	09-Feb-18	26-Feb-18	0%	0%	-104																							
A55240	Perf MU - 1st GW with Ceramic Mullion Test Proposal Submission	12	24-Oct-17	04-Nov-17	24-Oct-17	04-Nov-17	100%	0%	-132																							
A55250	Perf MU - 1st GW with Ceramic Mullion Test Proposal Review & Appro	21	05-Nov-17	25-Nov-17	05-Nov-17	25-Nov-17	100%	0%	-132																							
A55260	Perf MU - 2nd GW with Ceramic Mullion Test Proposal Submission	14	26-Nov-17	09-Dec-17	26-Nov-17	09-Dec-17	100%	0%	-132																							
A55270	Perf MU - 2nd GW with Ceramic Mullion Test Proposal Review & Appr	21	10-Dec-17	30-Dec-17	10-Dec-17	30-Dec-17	100%	0%	-132																							
PMU SHOPDRAWING SUBMISSION & TEST - Vertical Glass Wall at Skylight Gallery																																
A54820	Perf MU - Vertical Glass Wall Skylight Gallery Production & Fabrication	134	01-Oct-17	11-Feb-18	01-Oct-17	11-Feb-18	97.01%	0%	-130																							
A54830	Perf MU - Vertical Glass Wall Skylight Gallery Installation	36	12-Feb-18	28-Mar-18	12-Feb-18	28-Mar-18	0%	0%	-106																							
A54840	Perf MU - Commence Testing of Vertical Glass Wall Skylight Gallery	0	29-Mar-18		29-Mar-18		0%	0%	-106																							
A54850	Perf MU - Testing & Report Submission of Vertical Glass Wall Skylight	12	29-Mar-18	16-Apr-18	29-Mar-18	16-Apr-18	0%	0%	-106																							
A55300	Perf MU - 2nd Vertical GW Skylight Gallery Test Proposal Submission	14	01-Oct-17	14-Oct-17	01-Oct-17	14-Oct-17	100%	0%	-134																							
A55310	Perf MU - 2nd Vertical GW Skylight Gallery Test Proposal Review & Ap	21	15-Oct-17	04-Nov-17	15-Oct-17	04-Nov-17	100%	0%	-134																							
PMU SHOPDRAWING SUBMISSION & TEST - Plaza Skylight 3/F Terrace																																
A54780	Perf MU - Plaza Skylight 3/F Terrace Production & Fabrication	117	05-Apr-17	30-Jul-17	05-Apr-17 A	29-Oct-17	100%	75%	-104																							
A54790	Perf MU - Plaza Skylight 3/F Terrace Installation	26	30-Oct-17	28-Nov-17	30-Oct-17	28-Nov-17	100%	0%	-82																							
A54800	Perf MU - Commence Testing of Plaza Skylight 3/F Terrace	0	29-Nov-17		29-Nov-17		100%	0%	-82																							
A54810	Perf MU - Testing & Report Submission of Plaza Skylight 3/F Terrace	12	29-Nov-17	12-Dec-17	29-Nov-17	12-Dec-17	100%	0%	-82																							
PMU SHOPDRAWING SUBMISSION & TEST - Acoustic Mock up																																
A55100	Perf MU - Commence Testing of Acoustic Mock Up	0	03-Oct-17		03-Oct-17		100%	0%	-80																							
A55110	Perf MU - Testing & Report Submission of Acoustic Mock Up	12	03-Oct-17	17-Oct-17	03-Oct-17	17-Oct-17	100%	0%	-80																							
PRODUCTION MOCK UP & INSPECTION																																
Prod MU - Tower Facade Precast Panel																																
A55360	Tower Precast Concrete & Curtain Wall Prod MU	60	11-Oct-17	09-Dec-17	18-Sep-17 A	06-Nov-17	58.33%	50%	-12																							
A55370	Inspection (Prod MU) - Tower Precast Concrete & Curtain Wall	0	07-Nov-17		07-Nov-17		0%	0%	-12																							
Prod MU - Podium Facade Precast Panel																																
A55380	Podium Precast Concrete & Curtain Wall Prod MU	60	08-Nov-17	06-Jan-18	08-Nov-17	06-Jan-18	0%	0%	-26																							
A55390	Inspection (Prod MU) - Podium Precast Concrete & Curtain Wall	0	07-Jan-18		07-Jan-18		0%	0%	-26																							
Prod MU - Kinked Glass with T Mullion																																
A55400	GW with T Mullion (Kinked & Straight) Prod MU	60	09-Feb-18	09-Apr-18	09-Feb-18	09-Apr-18	0%	0%	-122																							
A55410	Inspection (Prod MU) - GW with T Mullion (Kinked & Straight)	0	10-Apr-18		10-Apr-18		0%	0%	-122																							
Prod MU - Glass Wall with Ceramic Mullions at GF																																
A55420	GW with Ceramic Mullion Prod MU	55	27-Feb-18	22-Apr-18	27-Feb-18	22-Apr-18	0%	0%	-125																							
A55430	Inspection (Prod MU) - GW with Ceramic Mullion	0	23-Apr-18		23-Apr-18		0%	0%	-125																							
Prod MU - Vertical Glass Wall at Skylight Gallery																																
A55440	Vertical GW with Skylight Gallery Prod MU	60	17-Apr-18	15-Jun-18	17-Apr-18	15-Jun-18	0%	0%	-136																							
Prod MU - Plaza Skylight 3/F Terrace</																																

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

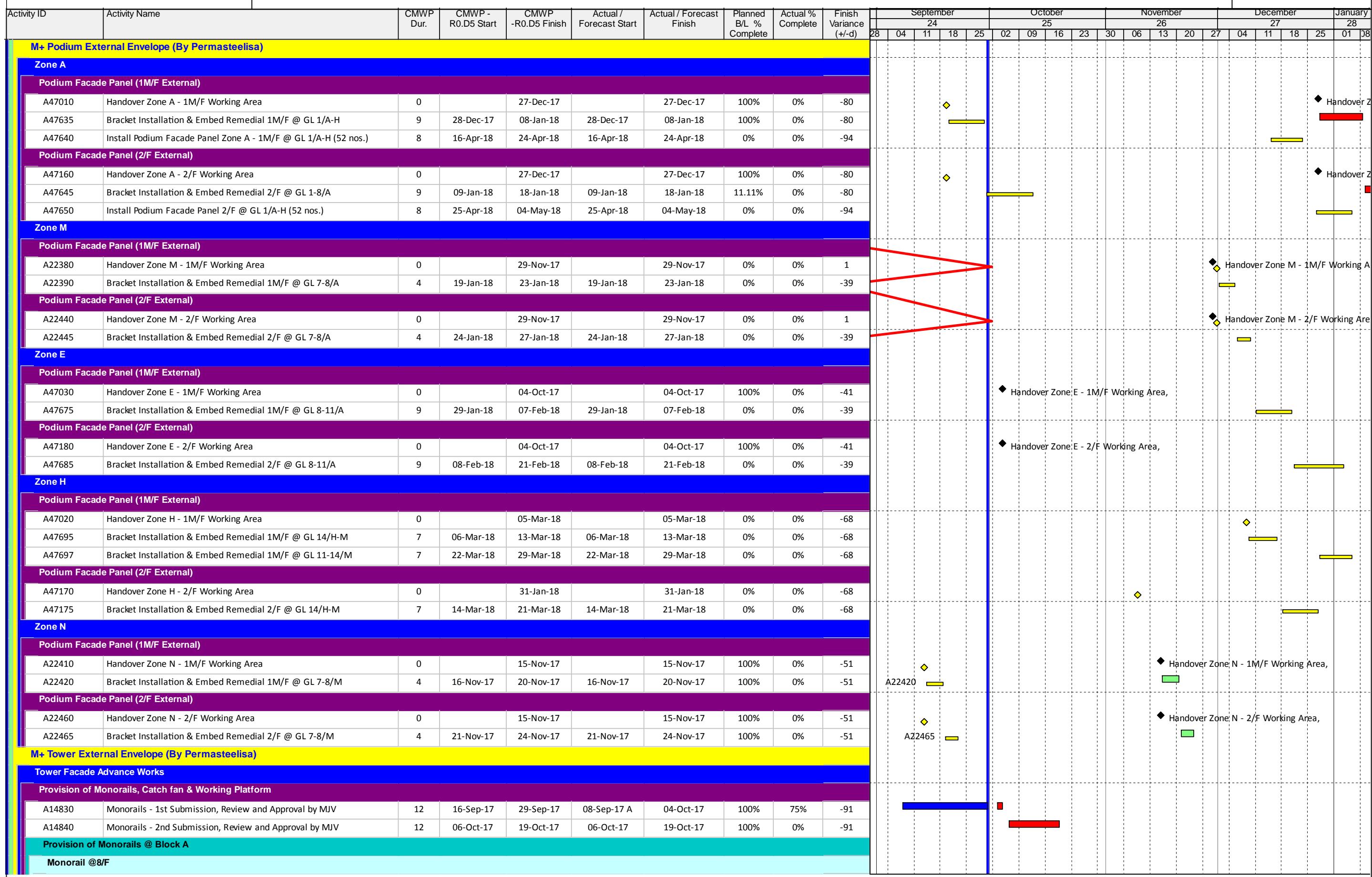
Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-)	September				October				November				December				January		
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
CW Glazed Panel Production & Fabrication																												
A54860	Fabrication & Assemble of Curtain Wall Unit	203	17-Nov-17	27-Jul-18	17-Nov-17	27-Jul-18	32.02%	0%	-102																			
A54910	Aluminium Extrusion Production	201	16-Jun-17	13-Feb-18	19-Jun-17 A	28-Feb-18	56.22%	40%	-32																			
A54920	Application of PVF2 Coating	170	03-Oct-17	03-May-18	03-Oct-17	03-May-18	45.03%	0%	-76																			
Terracotta Production																												
A54940	Terracotta Production - Tower (Bulk)	222	17-Mar-17	13-Dec-17	17-Mar-17 A	26-Mar-18	66.39%	36%	-60																			
A54950	Delivery to Precast Factory	212	16-Jun-17	01-Mar-18	22-Jun-17 A	03-May-18	51.42%	28%	-67																			
Precast Concrete Facade																												
A54960	Precast Concrete Mould Making	215	02-Sep-17	28-May-18	16-Apr-17 A	03-May-18	48.84%	95%	-60																			
A54970	Concreting of Precast Concrete	190	02-Dec-17	27-Jul-18	02-Dec-17	27-Jul-18	27.37%	0%	-102																			
A54980	Assemble of Curtain Wall to Precast Facade	191	15-Dec-17	10-Aug-18	15-Dec-17	10-Aug-18	21.47%	0%	-102																			
A54990	Inspection, Packing & Delivery to Site - Tower Facade	191	27-Dec-17	20-Aug-18	27-Dec-17	20-Aug-18	17.28%	0%	-102																			
A55000	Precast Panel 1st Delivery to Site - Tower	0	02-Jan-18		02-Jan-18		0%	0%	-21																		◆ Precat	
01B Tower Lighting (Bulk)																												
Procurement & Production (3F to Roof) & Shipment																												
A55020	Production - Tower Lighting Bar	189	18-Apr-17	01-Dec-17	16-Apr-17 A	12-Jan-18	100%	56.08%	-100																			
CW Glazed Panel Production & Fabrication																												
A10000	IQC Inspection	189	19-Oct-17	11-Jun-18	19-Oct-17	11-Jun-18	52.63%	0%	-112																			
A10010	OQC Inspection	189	30-Oct-17	21-Jun-18	30-Oct-17	21-Jun-18	48.42%	0%	-112																			
A55030	Delivery & Assembly	199	03-Oct-17	07-Jun-18	03-Oct-17	07-Jun-18	56.5%	0%	-112																			
02 Podium Facade PC + CW (Bulk)																												
A54470	Production & Fabrication - Precast Panel for Podium	262	12-Nov-16	31-Jul-17	12-Nov-16 A	15-Apr-18	81.16%	25%	-122																			
A54480	1st Delivery to Site - Precast Panel for Podium	0	16-Apr-18		16-Apr-18		0%	0%	-94																		◆	
Glass Production & Fabrication																												
A10020	Ordering of Coated Glass	106	12-Nov-16	22-Mar-17	12-Nov-16 A	10-Nov-17	100%	70%	-108																			
A10030	Fabrication of Insulated Glass Panel	166	11-Nov-17	06-Jun-18	11-Nov-17	06-Jun-18	45.78%	0%	-108																			
CW Glazed Panel Production & Fabrication																												
A10040	Die Making - Bulk Production	46	17-Feb-17	12-Apr-17	17-Feb-17 A	11-Oct-17	100%	85%	-113																			
A10050	Aluminium Extrusion Production	139	12-Oct-17	03-Apr-18	12-Oct-17	03-Apr-18	75.71%	0%	-112																			
A10060	Application of PVF2 Coating	156	25-Oct-17	08-May-18	25-Oct-17	08-May-18	60.51%	0%	-112																			
A10070	Fabrication & Assemble of Curtain Wall Unit	157	22-Nov-17	06-Jun-18	22-Nov-17	06-Jun-18	42.68%	0%	-108																			
Terracotta Production																												
A10100	Terracotta Production - Tower (Bulk)	165	24-Apr-17	09-Nov-17	24-Apr-17 A	03-Apr-18	74.86%	11%	-101																			
A10160	Delivery of Terracotta to Precast Factory from Italy (by ship)	131	08-Jul-17	11-Dec-17	22-Jun-17 A	15-Feb-18	55.73%	14%	-54																			
A10170	1st Lot Arrived (By Ship) Podium Bulk to Precast Concrete Factory in Ch	0	03-Oct-17		03-Oct-17		100%	0%	-37																		◆ 1st Lot Arrived (By Ship) Podium Bulk to Precast Concrete Factory in China, 03-Oct-17	
Precast Concrete Facade																												
A10110	Precast Concrete Mould Making	153	19-Jun-17	18-Dec-17	19-Jun-17 A	15-Feb-18	58.17%	95%	-48																			
A10130	Assemble of Curtain Wall to Precast Facade	116	27-Jan-18	22-Jun-18	27-Jan-18	22-Jun-18	11.21%	0%	-108																			
A10140	Inspection, Packing & Delivery to Site - Podium Facade	116	10-Feb-18	07-Jul-18	10-Feb-18	07-Jul-18	0.86%	0%	-108																			
A10150	Precast Panel 1st Delivery to Site - Podium	0	16-Apr-18		16-Apr-18		0%	0%	-94																		◆	
A10180	Curing of 1st Lot	6	20-Jan-18	26-Jan-18	20-Jan-18	26-Jan-18	100%	0%	-108																			
03 GW with T Mullion (Kinked & Straight B1F to GF) (Bulk)																												

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

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Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

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Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP -R0.D5 Start	CMWP -R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January	
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08		
A14850	M+ Tower Block A 10/F Slab complete	0		22-Nov-17		22-Nov-17	0%	0%	-41																						
A14870	Remove Scaffolding @ 8/F Block A	2	23-Nov-17	24-Nov-17	23-Nov-17	24-Nov-17	0%	0%	-41																						
A14880	Install monorails at 8/F slab @ Block A	12	25-Nov-17	08-Dec-17	25-Nov-17	08-Dec-17	0%	0%	-41																						
A14890	Inspection and ICE & RPE certification @ Block A	5	09-Dec-17	14-Dec-17	09-Dec-17	14-Dec-17	0%	0%	-41																						
Provision of Monorails @ Block B																															
Monorail @8/F																															
A14950	M+ Tower Block B 10/F Slab complete	0		11-Jan-18		11-Jan-18	0%	0%	-37																						
A14960	Remove Scaffolding @ 8/F Block B	2	12-Jan-18	13-Jan-18	12-Jan-18	13-Jan-18	0%	0%	-37																						
A14970	Install monorails at 8/F slab @ Block B	12	15-Jan-18	27-Jan-18	15-Jan-18	27-Jan-18	0%	0%	-37																						
A14990	Inspection and ICE & RPE certification @ Block B	5	29-Jan-18	02-Feb-18	29-Jan-18	02-Feb-18	0%	0%	-37																						
Provision of Catchfan																															
A42770	Preparation & Design of Catchfan & Working Platform	12	17-Oct-17	31-Oct-17	11-Sep-17 A	09-Oct-17	100%	50%	-70																						
Provision of Catch fan @ Block A11/F																															
A43250	Remove Scaffolding @ 10/F Block A	2	23-Nov-17	24-Nov-17	23-Nov-17	24-Nov-17	0%	0%	-41																						
A43260	Install Catch fan @ 11th/F slab South Elevation Block A	5	25-Nov-17	30-Nov-17	25-Nov-17	30-Nov-17	0%	0%	-41																						
A43270	Inspection, ICE & RPE certification for Working Platform @ Block A	5	01-Dec-17	06-Dec-17	01-Dec-17	06-Dec-17	0%	0%	-41																						
A43480	Install Catch fan @ 11th/F slab North Elevation Block A	5	25-Nov-17	30-Nov-17	25-Nov-17	30-Nov-17	0%	0%	-41																						
A43490	Inspection, ICE & RPE certification for Catchfan @ 11th/F Block A	5	01-Dec-17	06-Dec-17	01-Dec-17	06-Dec-17	0%	0%	-41																						
A47980	Install Working Platform @ 6th/F & 8th/F for South North Elevation Bl	5	25-Nov-17	30-Nov-17	25-Nov-17	30-Nov-17	0%	0%	-41																						
Provision of Catch fan @ Block A15/F																															
A38180	Remove Scaffolding @ 14/F Block A	2	01-Feb-18	02-Feb-18	01-Feb-18	02-Feb-18	0%	0%	-38																						
A38190	Install Catch fan @ 15/F South Elevation Block A	5	03-Feb-18	08-Feb-18	03-Feb-18	08-Feb-18	0%	0%	-38																						
A38200	Install Catch fan @ 15/F North Elevation Block A	5	03-Feb-18	08-Feb-18	03-Feb-18	08-Feb-18	0%	0%	-38																						
A38210	Inspection, ICE & RPE certification for Catchfan @15/F Block A	5	09-Feb-18	14-Feb-18	09-Feb-18	14-Feb-18	0%	0%	-38																						
Provision of Catch fan @ Block B 11/F																															
A38250	Inspection, ICE & RPE certification for Working Platform @ Block B	5	18-Jan-18	23-Jan-18	18-Jan-18	23-Jan-18	0%	0%	-37																						
A43500	Remove Scaffolding @ 10/F Block B	2	12-Jan-18	13-Jan-18	12-Jan-18	13-Jan-18	0%	0%	-37																						
A43510	Install Catch fan @ 11th/F slab South Elevation Block B	5	15-Jan-18	19-Jan-18	15-Jan-18	19-Jan-18	0%	0%	-37																						
A43520	Install Catch fan @ 11th/F slab North Elevation Block B	5	15-Jan-18	19-Jan-18	15-Jan-18	19-Jan-18	0%	0%	-37																						
A43530	Install Working Platform @ 6th/F & 8th/F for South North Elevation Bl	5	12-Jan-18	17-Jan-18	12-Jan-18	17-Jan-18	0%	0%	-37																						
A43540	Inspection, ICE & RPE certification for Catchfan @11/F Block B	5	20-Jan-18	25-Jan-18	20-Jan-18	25-Jan-18	0%	0%	-37																						
Facade Installation by TC6-2, TC2, TC7-2 & Monorail																															
Tower Structure Block A & Scaffolding Removal																															
A58300	Concrete cured & scaffolding removed @5th/F Block A	12	03-Oct-17	17-Oct-17	03-Oct-17	17-Oct-17	100%	0%	-47																						
A58302	Concrete cured & scaffolding removed @6th/F Block A	12	12-Oct-17	25-Oct-17	12-Oct-17	25-Oct-17	100%	0%	-42																						
A58305	Concrete cured & scaffolding removed @7th/F Block A	12	26-Oct-17	09-Nov-17	26-Oct-17	09-Nov-17	100%	0%	-42																						
A58307	Concrete cured & scaffolding removed @8th/F Block A	12	10-Nov-17	23-Nov-17	10-Nov-17	23-Nov-17	91.67%	0%	-42																						
A58310	Concrete cured & scaffolding removed @9th/F Block A	12	23-Nov-17	06-Dec-17	23-Nov-17	06-Dec-17	0%	0%	-41																						
A58320	Concrete cured & scaffolding removed @10th/F Block A	12	06-Dec-17	19-Dec-17	06-Dec-17	19-Dec-17	0%	0%	-40																						
A58330	Concrete cured & scaffolding removed @11th/F Block A	12	19-Dec-17	04-Jan-18	19-Dec-17	04-Jan-18	0%	0%	-39																						
A58340	Concrete cured & scaffolding removed @12th/F Block A	12	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	0%	0%	-38																						
Tower Structure Block B & Scaffolding Removal																															
A58350	Concrete cured & scaffolding removed @5th/F Block B	12	24-Nov-17	07-Dec-17	24-Nov-17	07-Dec-17	0%	0%	-38																						
A58360	Concrete cured & scaffolding removed @6th/F Block B	12	05-Dec-																												

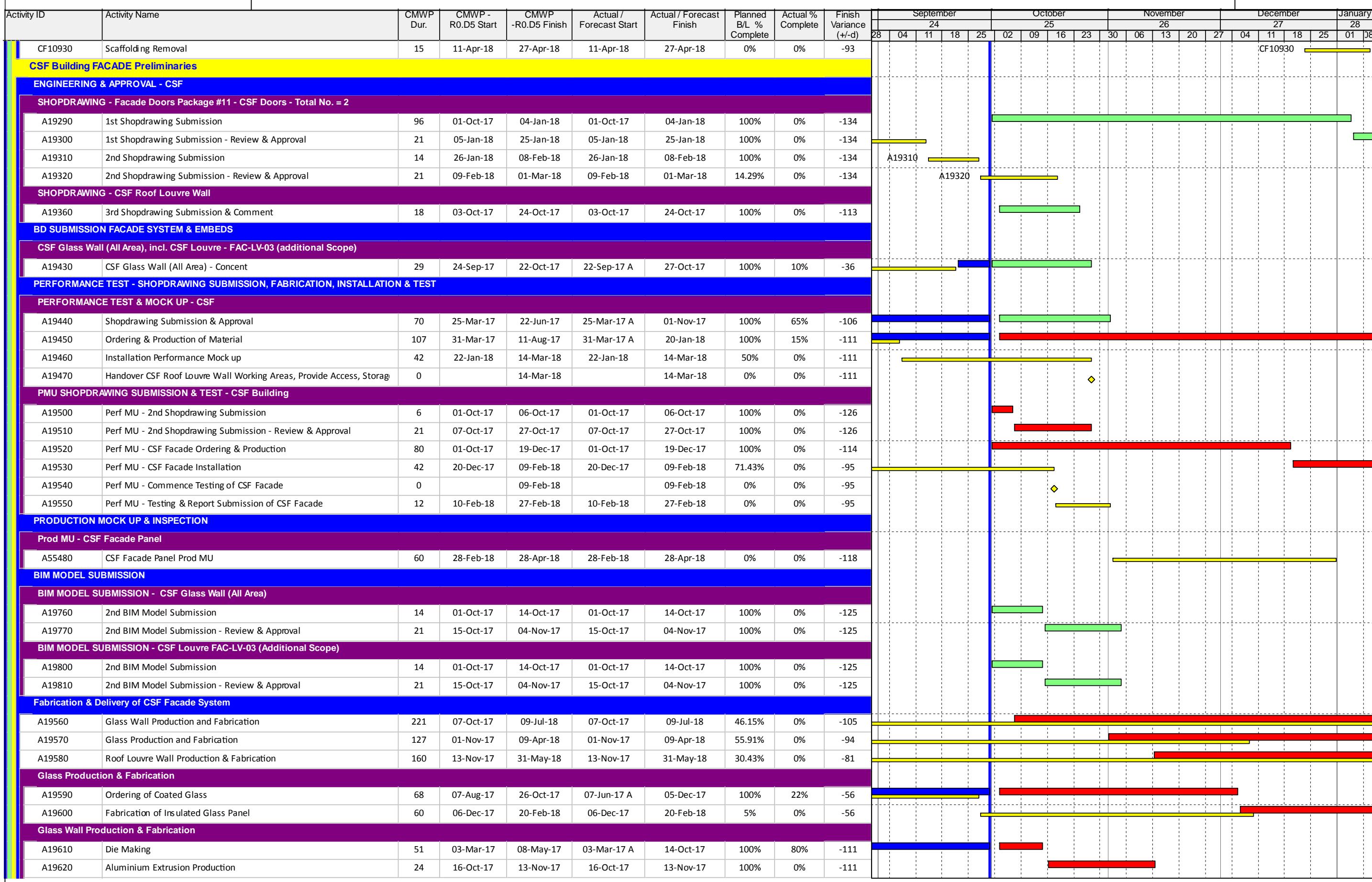
Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					
										24					25					26					27					28
A58390	Concrete cured & scaffolding removed @9th/F Block B	12	12-Jan-18	25-Jan-18	12-Jan-18	25-Jan-18	0%	0%	-37	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	
A58400	Concrete cured & scaffolding removed @10th/F Block B	12	24-Jan-18	06-Feb-18	24-Jan-18	06-Feb-18	0%	0%	-37																					
A58410	Concrete cured & scaffolding removed @11th/F Block B	12	05-Feb-18	21-Feb-18	05-Feb-18	21-Feb-18	0%	0%	-37																					
Preparation Works																														
A59810	Survey, Setup & Bracket Installation for 1st Installation - Weathertight	27	10-Nov-17	11-Dec-17	10-Nov-17	11-Dec-17	40.74%	0%	-42																					
Monorail @10/F - North & South Elevation 4/F to 5/F (Weathertight Zone)																														
A59670	M+ Tower - Monorail Installed @ 8/F	0			19-Dec-17		19-Dec-17	0%	0%	-40																				
A59680	M+ Tower 4/F Lower - External Facade 2nd Fix (10x2 panels@4 panel:	5	02-Jan-18	06-Jan-18	02-Jan-18	06-Jan-18	0%	0%	-21																					
A59690	M+ Tower 4/F Upper - External Facade 2nd Fix (9x2 panels@4 panel/d	5	08-Jan-18	12-Jan-18	08-Jan-18	12-Jan-18	0%	0%	-21																					
A59695	M+ Tower (Block B) - Monorail Installed @ 8/F	0			02-Feb-18		02-Feb-18	0%	0%	-37																				
A59700	M+ Tower (Block B) 4/F Lower - External Facade 2nd Fix (34x2 panels@	9	03-Feb-18	13-Feb-18	03-Feb-18	13-Feb-18	0%	0%	-37																					
CSF & RDE Construction																														
Sub-Structure RC Works																														
B1/F Level																														
CSF Zoning @ Portion - T																														
Portion B1T5 @ Grid Line Ato B' / 4' to 6'																														
A48650	Remove scaffolds & cleaning	5	03-Oct-17	09-Oct-17	29-Sep-17 A	06-Oct-17	100%	40%	-101																					
G/F Level																														
North Zoning @ Portion - R (B1/F to G/F)																														
Portion GFR1 @ Grid Line I' to J' / 6' to 7'																														
A49240	Construct Columns & Walls & Cols B1/F to G/F @ GL I'-J' / 5'-1	16	13-Feb-17	02-Mar-17	13-Feb-17 A	07-Oct-17	100%	70%	-106																					
A49250	Construct beams & slab (G/F) (180 m3)	15	09-Oct-17	25-Oct-17	09-Oct-17	25-Oct-17	100%	0%	-103																					
A49260	Concrete Curing period (2-weeks)	12	26-Oct-17	06-Nov-17	26-Oct-17	06-Nov-17	100%	0%	-124																					
A49270	Remove scaffolds & cleaning	4	07-Nov-17	10-Nov-17	07-Nov-17	10-Nov-17	100%	0%	-101																					
Portion GFR2 @ Grid Line F' to I' / 6' to 7'																														
A49280	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1	16	06-Feb-17	23-Feb-17	06-Feb-17 A	16-Oct-17	100%	25%	-110																					
A49290	Construct beams & slab (G/F) (175 m3)	18	26-Oct-17	16-Nov-17	26-Oct-17	16-Nov-17	100%	0%	-103																					
A49300	Concrete Curing period (2-weeks)	12	17-Nov-17	28-Nov-17	17-Nov-17	28-Nov-17	100%	0%	-124																					
A49310	Remove scaffolds & cleaning	6	29-Nov-17	05-Dec-17	29-Nov-17	05-Dec-17	100%	0%	-103																					
Portion GFR3 @ Grid Line D' to F' / 6' to 7'																														
A49330	Construct Columns & Walls & Cols B1/F to G/F @ GL F'-H' / 5'-1	16	18-Apr-17	08-May-17	17-Apr-17 A	16-Oct-17	100%	30%	-110																					
A49340	Construct beams & slab (G/F) (184 m3)	16	17-Nov-17	05-Dec-17	17-Nov-17	05-Dec-17	100%	0%	-103																					
A49350	Concrete Curing period (2-weeks)	12	06-Dec-17	17-Dec-17	06-Dec-17	17-Dec-17	100%	0%	-124																					
A49360	Remove scaffolds & cleaning	6	18-Dec-17	23-Dec-17	18-Dec-17	23-Dec-17	100%	0%	-103																					
Portion GFR4 @ Grid Line D' to F' / 7' to 2																														

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December	January			
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08
A49480	Concrete Curing period (2-weeks)	12	05-Nov-17	16-Nov-17	05-Nov-17	16-Nov-17	100%	0%	-85																				
A49490	Remove scaffolds & cleaning	6	17-Nov-17	23-Nov-17	17-Nov-17	23-Nov-17	100%	0%	-70																				
Portion GFR7 @ Grid Line A to B' / 6' to 7'																													
A49510	Construct Columns & Walls & Cols B1/F to G/F @ GL A'-C' / 6'-7'	14	02-May-17	18-May-17	01-May-17 A	30-Sep-17 A	100%	100%	-102																				
A49520	Construct beams & slab (G/F) (132 m3)	14	25-Sep-17	12-Oct-17	09-Sep-17 A	11-Oct-17	100%	20%	-95																				
A49530	Concrete Curing period (2-weeks)	12	12-Oct-17	23-Oct-17	12-Oct-17	23-Oct-17	100%	0%	-114																				
A49540	Remove scaffolds & cleaning	6	24-Oct-17	31-Oct-17	24-Oct-17	31-Oct-17	100%	0%	-95																				
Portion GFR8 @ Grid Line A to B' / 7' to 2																													
A49640	Construct Columns & Walls & Cols B1/F to G/F @ GL A-A' / 6'-7'	14	07-Jul-17	22-Jul-17	19-Jun-17 A	23-Sep-17 A	100%	100%	-82																				
A49650	Construct beams & slab (G/F) (186 m3)	18	15-Aug-17	05-Sep-17	29-Jul-17 A	12-Oct-17	100%	30%	-78																				
A49660	Concrete Curing period (2-weeks)	12	13-Oct-17	24-Oct-17	13-Oct-17	24-Oct-17	100%	0%	-93																				
A49670	Remove scaffolds & cleaning	6	27-Dec-17	03-Jan-18	27-Dec-17	03-Jan-18	100%	0%	-75																				
North Zoning @ Portion - S (B1/F to G/F)																													
Portion GFS2 @ Grid Line A / 6' to 1																													
A49750	Construct beams & slab (G/F) (128 m3)	16	02-Sep-17	21-Sep-17	30-Aug-17 A	18-Oct-17	100%	35%	-96																				
A49760	Concrete Curing period (2-weeks)	3	19-Oct-17	21-Oct-17	19-Oct-17	21-Oct-17	100%	0%	-107																				
A49770	Remove scaffolds & cleaning	6	23-Oct-17	30-Oct-17	23-Oct-17	30-Oct-17	100%	0%	-90																				
CSF Zoning @ Portion - T (LG/F to G/F)																													
Portion GFT2 (LG/F to G/F) @ Grid Line D' to F' / 3' to 5'																													
A49880	Remove scaffolds & cleaning	5	30-Jun-17	06-Jul-17	23-Jun-17 A	11-Sep-17 A	100%	100%	-90																				
Portion GFT3 (LG/F to G/F) @ Grid Line D' to G' / 5' to 6'																													
A49920	Remove scaffolds & cleaning	5	30-Jun-17	06-Jul-17	24-Jun-17 A	11-Sep-17 A	100%	100%	-90																				
Portion GFT4 (LG/F to G/F) @ Grid Line B' to D' / 3' to 6'																													
A49960	Remove scaffolds & cleaning	6	07-Jul-17	13-Jul-17	24-Jun-17 A	11-Sep-17 A	100%	100%	-78																				
Portion GFT5 (B1/F to G/F) @ Grid Line A to B' / 4' to 6'																													
A50040	Construct beams & slab (G/F) (216 m3)	18	24-Jun-17	15-Jul-17	17-Jun-17 A	13-Sep-17 A	100%	100%	-71																				
A50050	Concrete Curing period (2-weeks)	13	19-Sep-17	02-Oct-17	14-Sep-17 A	21-Sep-17 A	100%	100%	-80																				
A50060	Remove scaffolds & cleaning	4	25-Sep-17	28-Sep-17	22-Sep-17 A	04-Oct-17	100%	60%	-75																				
CSF Super-Structure RC Works																													
CSF Building																													
CSF Structure @ Portion - T (G/F to 8/F)																													
Grid Line B' to F' / 4' to 6'																													
A50720	CSF - 1/F to 2/F Construction	21	08-Jul-17	01-Aug-17	04-Jul-17 A	23-Sep-17 A	100%	100%	-73																				
A50730	CSF - 2/F to 3/F Construction	12	15-Sep-17	29-Sep-17	01-Sep-17 A	31-Oct-17	100%	20%	-87																				
A50750	CSF - 3/F to 4/F Construction (Incl envelope)	11	01-Nov-17	13-Nov-17	01-Nov-17	13-Nov-17	100%	0%	-86																				
A50760	CSF - 4/F to 5/F Construction (Incl envelope)	11	14-Nov-17	25-Nov-17	14-Nov-17	25-Nov-17	100%	0%	-85																				
A50770	CSF - 5/F to 6/F Construction (Incl envelope)	11	27-Nov-17	08-Dec-17	27-Nov-17	08-Dec-17	100%	0%	-84																				
A50780	CSF - 6/F to 7/F Construction	11	09-Dec-17	21-Dec-17	09-Dec-17	21-Dec-17	100%	0%	-83																				
A50790	CSF - 7/F to 8/F Construction	12	22-Dec-17	08-Jan-18	22-Dec-17	08-Jan-18	100%	0%	-83																				
A50795	CSF - 8/F to +61.13/62.0 Construction	12	09-Jan-18	22-Jan-18	09-Jan-18	22-Jan-18	33.33%	0%	-83																				
A50800	CSF - 8/F to R/F Construction	22	23-Jan-18	20-Feb-18	23-Jan-18	20-Feb-18	0%	0%	-81																				
A50810	Complete CSF Structure (Milestone B7: 31 July 2017)	0		20-Feb-18		20-Feb-18	0%	0%	-87																				
A50815	CSF - 8/F to R/F Construction	24	21-Mar-18	21-Apr-18	21-Mar-18	21-Apr-18	0%	0%	-81																				
CSF Building Temporary Works																													

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September



Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December									
										24					25					26					27					28				
A19630	PVF2 Paint Ordering	51	10-Apr-17	14-Jun-17	10-Apr-17 A	14-Nov-17	100%	30%	-105	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08					
A19640	Application of PVF2 Coating	18	15-Nov-17	05-Dec-17	15-Nov-17	05-Dec-17	100%	0%	-105																									
A19650	Steel Frame Fabrication - Roof Louvre	74	09-Jan-18	12-Apr-18	09-Jan-18	12-Apr-18	35.14%	0%	-105																									
A19660	Fabrication & Assemble of Glazed Units	18	13-Apr-18	04-May-18	13-Apr-18	04-May-18	0%	0%	-96																									
Roof Louvre Wall Production & Fabrication																																		
A19680	Steel Frame Fabrication - Roof Louvre	120	13-Nov-17	12-Apr-18	13-Nov-17	12-Apr-18	40.83%	0%	-82																									
A19690	Die Making	60	13-Nov-17	24-Jan-18	13-Nov-17	24-Jan-18	81.67%	0%	-82																									
A19700	Aluminium Extrusion Production	30	25-Jan-18	03-Mar-18	25-Jan-18	03-Mar-18	0%	0%	-82																									
A19710	PVF2 Paint Ordering	30	25-Jan-18	03-Mar-18	25-Jan-18	03-Mar-18	0%	0%	-82																									
A19720	Application of PVF2 Coating	10	05-Mar-18	15-Mar-18	05-Mar-18	15-Mar-18	0%	0%	-80																									
A19730	Fabrication & Assemble of Louvre Units	52	16-Mar-18	21-May-18	16-Mar-18	21-May-18	0%	0%	-72																									
CSF External Envelope																																		
CSF Structure Milestones																																		
A19820	CSF - Wall, Column & G/F to 1/F Slab Complete	0		30-Sep-17		30-Sep-17	100%	0%	-101																									
A19830	CSF - Wall, Column & 6/F to 7/F Slab Complete	0		21-Dec-17		21-Dec-17	100%	0%	-86																									
A19840	CSF - Wall, Column & 7/F to 8/F Slab Complete	0		08-Jan-18		08-Jan-18	100%	0%	-89																									
A19850	CSF - Wall, Column & R/F Slab Complete	0		20-Feb-18		20-Feb-18	0%	0%	-87																									
FAÇADE INSTALLATION - by Permasteelisa																																		
Glazed Glass Curtain Wall - North Elevation 6/F to 8/F																																		
A19860	Handover of Working Area (6/F to 8/F)	0		08-Jan-18		08-Jan-18	100%	0%	-89																									
A19870	Surveying of Embeds (6/F to 8/F)	7	09-Jan-18	16-Jan-18	09-Jan-18	16-Jan-18	57.14%	0%	-89																									
A19880	Submission of Embeds survey report (6/F to 8/F)	7	17-Jan-18	24-Jan-18	17-Jan-18	24-Jan-18	0%	0%	-89																									
A19890	Preparation of Remedial Method (6/F to 8/F)	14	25-Jan-18	09-Feb-18	25-Jan-18	09-Feb-18	0%	0%	-89																									
A19900	Approval of Remedial Method (6/F to 8/F)	14	10-Feb-18	26-Feb-18	10-Feb-18	26-Feb-18	0%	0%	-89																									
A19910	Bracket Installation (6/F to 8/F)	24	27-Feb-18	26-Mar-18	27-Feb-18	26-Mar-18	0%	0%	-89																									
Glazed Glass Curtain Wall - South Elevation																																		
A19950	Handover of Working Area (G/F)	0		30-Sep-17		30-Sep-17	100%	0%	-101																									
A19960	Surveying of Embeds (G/F to 1/F)	7	01-Jul-17	08-Jul-17	19-Jun-17 A	06-Oct-17	100%	15%	-99																									
A19970	Submission of Embeds survey report (G/F to 1/F)	7	10-Jul-17	17-Jul-17	19-Jun-17 A	09-Oct-17	100%	0%	-94																									
A19980	Preparation of Remedial Method (G/F to 1/F)	14	10-Oct-17	25-Oct-17	10-Oct-17	25-Oct-17	100%	0%	-94																									
A19990	Approval of Remedial Method (G/F to 1/F)	14	26-Oct-17	10-Nov-17	26-Oct-17	10-Nov-17	100%	0%	-94																									
A20000	Bracket Installation (G/F to 1/F)	14	11-Nov-17	27-Nov-17	11-Nov-17	27-Nov-17	100%	0%	-94																									
A20020	Handover of Working Area (6/F to R/F)	0		20-Feb-18		20-Feb-18	0%	0%	-87																									
A20030	Surveying of Embeds (6/F to R/F)	14	21-Feb-18	08-Mar-18	21-Feb-18	08-Mar-18	0%	0%	-87																									
A20040	Submission of Embeds survey report (6/F to R/F)	7	09-Mar-18	16-Mar-18	09-Mar-18	16-Mar-18	0%	0%	-87																									
A20050	Preparation of Remedial Method (6/F to R/F)	14	17-Mar-18	02-Apr-18	17-Mar-18	02-Apr-18	0%	0%	-87																									
A20060	Approval of Remedial Method (6/F to R/F)	14	03-Apr-18	18-Apr-18	03-Apr-18	18-Apr-18	0%	0%	-87																									
MEP Vertical Louvre Screen Wall - South																																		

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP -R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January										
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08											
RDE Building										September					October					November					December					January										
RDE Structure @ Portion - U (G/F to 15M/F)										24					25					26					27					28										
Block A Grid Line G' to J' / 1' to 6'										28					04					11					18					25					01					
A50840	RDE - Walls, Columns & 1/F Slab - Zone B	50	29-Mar-17	02-Jun-17	29-Mar-17 A	13-Sep-17 A	100%	100%	-78	02					09					16					23					30					01					
A50845	RDE - Walls, Columns & 1/F Slab - Zone A	50	18-Apr-17	17-Jun-17	14-Apr-17 A	13-Sep-17 A	100%	100%	-69	02					09					16					23					30					08					
A50850	RDE - Walls, Columns & 2/F Slab - Zone B	30	17-Jul-17	19-Aug-17	09-Jun-17 A	21-Oct-17	100%	94%	-76	02					09					16					23					30					01					
A50855	RDE - Walls, Columns & 2/F Slab - Zone A	30	20-Jul-17	23-Aug-17	09-Jun-17 A	02-Nov-17	100%	94%	-80	02					09					16					23					30					08					
A50860	RDE - Walls, Columns & 3/F Slab - Zone B	22	23-Oct-17	17-Nov-17	23-Oct-17	17-Nov-17	100%	0%	-74	02					09					16					23					30					01					
A50865	RDE - Walls, Columns & 3/F Slab - Zone A	18	03-Nov-17	23-Nov-17	03-Nov-17	23-Nov-17	100%	0%	-74	02					09					16					23					30					08					
A50870	RDE - Walls, Columns & 4/F Slab - Zone B	14	18-Nov-17	04-Dec-17	18-Nov-17	04-Dec-17	100%	0%	-72	02					09					16					23					30					01					
A50875	RDE - Walls, Columns & 4/F Slab - Zone A	15	24-Nov-17	11-Dec-17	24-Nov-17	11-Dec-17	100%	0%	-73	02					09					16					23					30					08					
A50880	RDE - Walls, Columns & 5/F Slab - Zone B	14	05-Dec-17	20-Dec-17	05-Dec-17	20-Dec-17	100%	0%	-72	02					09					16					23					30					01					
A50885	RDE - Walls, Columns & 5/F Slab - Zone A	14	12-Dec-17	29-Dec-17	12-Dec-17	29-Dec-17	100%	0%	-73	02					09					16					23					30					08					
A50890	RDE - Walls, Columns & 6/F Slab - Zone B	12	21-Dec-17	06-Jan-18	21-Dec-17	06-Jan-18	50%	0%	-72	02					09					16					23					30					01					
A50895	RDE - Walls, Columns & 6/F Slab - Zone A	12	30-Dec-17	13-Jan-18	30-Dec-17	13-Jan-18	8.33%	0%	-73	02					09					16					23					30					08					
A50900	RDE - Walls, Columns & 7/F Slab - Zone B	12	08-Jan-18	20-Jan-18	08-Jan-18	20-Jan-18	0%	0%	-72	02					09					16					23					30					01					
A50905	RDE - Walls, Columns & 7/F Slab - Zone A	12	15-Jan-18	27-Jan-18	15-Jan-18	27-Jan-18	0%	0%	-73	02					09					16					23					30					08					
A50910	RDE - Walls, Columns & 8/F Slab - Zone B	12	22-Jan-18	03-Feb-18	22-Jan-18	03-Feb-18	0%	0%	-72	02					09					16					23					30					01					
A50915	RDE - Walls, Columns & 8/F Slab - Zone A	12	29-Jan-18	10-Feb-18	29-Jan-18	10-Feb-18	0%	0%	-73	02					09					16					23					30					08					
A50920	RDE - Walls, Columns & 9/F Slab - Zone B	12	05-Feb-18	21-Feb-18	05-Feb-18	21-Feb-18	0%	0%	-72	02					09					16					23					30					01					
A50925	RDE - Walls, Columns & 9/F Slab - Zone A	12	12-Feb-18	28-Feb-18	12-Feb-18	28-Feb-18	0%	0%	-73	02					09					16					23					30					08					
A50940	RDE - Walls, Columns & 10/F Slab - Zone B	12	22-Feb-18	07-Mar-18	22-Feb-18	07-Mar																																		

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
A23670	13/F Facade Installation Complete	0		30-Sep-17		30-Sep-17	100%	0%	-132																		
A23680	14/F Facade Installation Complete	0		30-Sep-17		30-Sep-17	100%	0%	-132																		
A23690	15/F Facade Installation Complete	0		30-Sep-17		30-Sep-17	100%	0%	-132																		
A23700	16/F Facade Installation Complete	0		30-Sep-17		30-Sep-17	100%	0%	-132																		
Lifts and Escalators																											
Podium Lift & Escalator Installation																											
Art Lift (LT13) @ Zone A1																											
LT10530	Available of lift Shaft LT13 (w/ Zone A1 Temporary watertight)	0		27-Dec-17		27-Dec-17	100%	0%	-99																		◆ Available o
LT10535	Builders' Work for LT13 Lift Shaft & M/C Room	12	28-Dec-17	11-Jan-18	28-Dec-17	11-Jan-18	83.33%	0%	-80																		
LT10540	Commence LT13 Lift M/C Room Installation	0	12-Jan-18		12-Jan-18		0%	0%	-99																		
LT10550	Lift M/C Room Installation @ B2/F (LT13)	25	12-Jan-18	09-Feb-18	12-Jan-18	09-Feb-18	0%	0%	-80																		
LT10560	Lift Car Installation (LT13)	90	10-Feb-18	10-May-18	10-Feb-18	10-May-18	0%	0%	-97																		
Passenger Lift, FS & Disable Lift (LT12) @ Zone A1																											
LT10590	Available of lift Shaft LT12 (w/ Zone A1 Temporary watertight)	0	26-Nov-17		26-Nov-17		100%	0%	-96																		◆ Available of lift Shaft LT12 (w/ Zone A1 1
LT10600	Builders' Work for LT12 Lift Shaft	25	27-Nov-17	27-Dec-17	27-Nov-17	27-Dec-17	100%	0%	-80																		
LT10610	Lift Car Installation (LT12)	60	28-Dec-17	25-Feb-18	28-Dec-17	25-Feb-18	18.33%	0%	-99																		
LT10620	EMSD Inspection (LT12)	21	26-Feb-18	18-Mar-18	26-Feb-18	18-Mar-18	0%	0%	-99																		
Passenger Lift, FS & Disable Lift (LT14) @ Zone A4																											
LT10640	Available of lift Shaft LT14 (w/ Zone A4 Temporary watertight)	0	26-Nov-17		26-Nov-17		100%	0%	-96																		◆ Available of lift Shaft LT14 (w/ Zone A4 1
LT10650	Builders' Work for LT14 Lift Shaft	25	27-Nov-17	27-Dec-17	27-Nov-17	27-Dec-17	100%	0%	-80																		
LT10660	Lift Car Installation (LT14)	60	28-Dec-17	25-Feb-18	28-Dec-17	25-Feb-18	18.33%	0%	-99																		
LT10670	EMSD Inspection (LT14)	21	26-Feb-18	18-Mar-18	26-Feb-18	18-Mar-18	0%	0%	-99																		
Passenger Lift, Diable Lift (LT15, LT16 & LT17) @ Zone A4																											
LT10690	Available of lift Shaft LT14 (w/ Zone A4 Temporary watertight)	0	28-Dec-17		28-Dec-17		100%	0%	-99																		◆ Available o
LT10700	Builders' Work for LT15 , LT16 & LT17 Lift Shafts	25	28-Dec-17	21-Jan-18	28-Dec-17	21-Jan-18	44%	0%	-99																		
LT10710	Lifts Car Installation (LT15, LT16 & LT17)	60	22-Jan-18	22-Mar-18	22-Jan-18	22-Mar-18	0%	0%	-99																		
LT10720	EMSD Inspection (LT15, LT16 & LT17)	21	23-Mar-18	12-Apr-18	23-Mar-18	12-Apr-18	0%	0%	-99																		
Passenger Lift, FS Lift (LT21 & LT22) @ Zone E																											
LT10820	Available of lift Shaft LT21 & LT22 (w/ Zone E Temporary watertight)	0	06-Feb-18		06-Feb-18		100%	0%	-138																		
LT10830	Builders' Work for LT21 & LT22 Lift Shaft	25	06-Feb-18	09-Mar-18	06-Feb-18	09-Mar-18	36%	0%	-112																		
LT10840	Lifts Car Installation (LT21 & LT22)	60	10-Mar-18	08-May-18	10-Mar-18	08-May-18	0%	0%	-139																		
LT10850	EMSD Inspection (LT21 & LT22)	21	09-May-18	29-May-18	09-May-18	29-May-18	0%	0%	-139																		
Escalators (ES03 & ES04) @ Zone AB1F to GF																											
LT11170	Available of Escalator Pit ES03 & ES04 at Zone A	0		25-Nov-17		25-Nov-17	100%	0%	-96																	◆ Available of Escalator Pit ES03 & ES04 at	
LT111																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September 24	October 25	November 26	December 27	January 28
	Long Lead Materials Procurement & Delivery									28	04	11	18	25
AB10100	Others	270	06-Jan-17	15-Oct-17	06-Jan-17 A	22-Jan-18	80.56%	0%	-46					
AB10140	Timber (Floor, Wall & Ceiling)	0	20-Nov-17		20-Nov-17*		0%	0%	0					
	Doors													
AB10110	B2/F & B1/F	0	01-Oct-17		01-Oct-17*		100%	0%	-30					
AB10120	LG/F & G/F	0	01-Oct-17		01-Oct-17*		0%	0%	0					
AB10130	1/F & above	0	01-Nov-17		01-Nov-17*		0%	0%	0					
	ABWF & Building Services Installation													
	M+ Basement ABWF & BS Installation													
	B2/F - Zone E & Zone E2 (Sector A)													
	Tanks													
	M+ Sprinkler Water Tank													
AB13590	Waterproofing & water test	12	01-Oct-17	14-Oct-17	01-Oct-17	14-Oct-17	100%	0%	-132					
AB13600	Plastering work (inside tank)	10	15-Oct-17	24-Oct-17	15-Oct-17	24-Oct-17	100%	0%	-132					
AB13610	Wall & floor tiling	14	25-Oct-17	08-Nov-17	25-Oct-17	08-Nov-17	100%	0%	-132					
AB13620	Application of sealer on soffit (outside tank)	7	09-Nov-17	15-Nov-17	09-Nov-17	15-Nov-17	100%	0%	-132					
AB13630	Cat ladder	7	16-Nov-17	22-Nov-17	16-Nov-17	22-Nov-17	100%	0%	-132					
AB13640	Hatch cover	7	23-Nov-17	29-Nov-17	23-Nov-17	29-Nov-17	100%	0%	-132					
	M+ FS Water Tank													
AB13660	Waterproofing & water test	12	25-Oct-17	06-Nov-17	25-Oct-17	06-Nov-17	100%	0%	-132					
AB13670	Plastering work (inside tank)	10	07-Nov-17	16-Nov-17	07-Nov-17	16-Nov-17	100%	0%	-132					
AB13680	Wall & floor tiling	14	17-Nov-17	30-Nov-17	17-Nov-17	30-Nov-17	100%	0%	-132					
AB13690	Application of sealer on soffit (outside tank)	7	01-Dec-17	07-Dec-17	01-Dec-17	07-Dec-17	100%	0%	-132					
AB13700	Cat ladder	7	08-Dec-17	14-Dec-17	08-Dec-17	14-Dec-17	100%	0%	-132					
AB13710	Hatch cover	7	15-Dec-17	21-Dec-17	15-Dec-17	21-Dec-17	100%	0%	-132					
	M+ IR Tank													
AB13730	Waterproofing & water test	12	17-Nov-17	28-Nov-17	17-Nov-17	28-Nov-17	100%	0%	-132					
AB13740	Plastering work (inside tank)	10	29-Nov-17	08-Dec-17	29-Nov-17	08-Dec-17	100%	0%	-132					
AB13750	Wall & floor tiling	14	09-Dec-17	22-Dec-17	09-Dec-17	22-Dec-17	100%	0%	-132					
AB13760	Application of sealer on soffit (outside tank)	7	23-Dec-17	31-Dec-17	23-Dec-17	31-Dec-17	100%	0%	-132					
AB13780	Hatch cover	7	09-Jan-18	15-Jan-18	09-Jan-18	15-Jan-18	100%	0%	-132					
	Rain Water Retention Tank													
AB13800	Waterproofing & water test	12	09-Dec-17	20-Dec-17	09-Dec-17	20-Dec-17	100%	0%	-132					
AB13810	Plastering work (inside tank)	10	21-Dec-17	02-Jan-18	21-Dec-17	02-Jan-18	100%	0%	-132					
AB13820	Wall & floor tiling	14	03-Jan-18	16-Jan-18	03-Jan-18	16-Jan-18	100%	0%	-132					
AB13830	Application of sealer on soffit (outside tank)	7	17-Jan-18	23-Jan-18	17-Jan-18	23-Jan-18	100%	0%	-132					
AB13840	Cat ladder	7	24-Jan-18	30-Jan-18	24-Jan-18	30-Jan-18	100%	0%	-132					
AB13850	Hatch cover	7	31-Jan-18	06-Feb-18	31-Jan-18	06-Feb-18	100%	0%	-132					
	Plantrooms													
	FS Pump Room													
	Builders' Work													
AB13370	Concrete plinth	5	11-Dec-17	16-Dec-17	11-Dec-17	16-Dec-17	100%	0%	-101					
AB13380	Wall rendering	7	16-Dec-17	23-Dec-17	16-Dec-17	23-Dec-17	100%	0%	-101					
AB13390	Floor Screeding	7	23-Dec-17	02-Jan-18	23-Dec-17	02-Jan-18	100%	0%	-101					
AB13400	Wall Epoxy Paint	7	02-Jan-18	09-Jan-18	02-Jan-18	09-Jan-18	100%	0%	-101					
AB13410	Sealer on ceiling soffit & application of epoxy paint on wall	14	09-Jan-18	23-Jan-18	09-Jan-18	23-Jan-18	42.86%	0%	-101					

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Electrical Systems																												
BS10000	FS Pump Room - MEP 2nd Fix	14	23-Jan-18	06-Feb-18	23-Jan-18	06-Feb-18	0%	0%	-101																			
FS & Plumbing Systems																												
BS10010	FS Pump Room - Install FS Pump	45	06-Feb-18	26-Mar-18	06-Feb-18	26-Mar-18	0%	0%	-101																			
Final Finishes																												
AB13420	Final coat of paint on wall	3	26-Mar-18	29-Mar-18	26-Mar-18	29-Mar-18	0%	0%	-101																			
AB13430	Sealer on floor	3	29-Mar-18	04-Apr-18	29-Mar-18	04-Apr-18	0%	0%	-101																			
AB13440	Door & ironmongeries installation	3	04-Apr-18	08-Apr-18	04-Apr-18	08-Apr-18	0%	0%	-101																			
IR/ RW/ ACC Condensate Pump Room & Water Meter Room																												
Builders' Work																												
AB13450	Concrete plinth	5	16-Dec-17	21-Dec-17	16-Dec-17	21-Dec-17	100%	0%	-101																			
AB13460	Wall rendering	7	21-Dec-17	30-Dec-17	21-Dec-17	30-Dec-17	100%	0%	-101																			
AB13470	Floor Screeding	7	30-Dec-17	07-Jan-18	30-Dec-17	07-Jan-18	100%	0%	-101																			
AB13480	Wall Epoxy Paint	7	07-Jan-18	14-Jan-18	07-Jan-18	14-Jan-18	100%	0%	-101																			
AB13490	Sealer on ceiling soffit & application of epoxy paint on wall	14	14-Jan-18	28-Jan-18	14-Jan-18	28-Jan-18	7.14%	0%	-101																			
Electrical Systems																												
BS10020	IR/ RW/ ACC Pump Room - MEP 2nd Fix	14	28-Jan-18	11-Feb-18	28-Jan-18	11-Feb-18	0%	0%	-101																			
FS & Plumbing Systems																												
BS10030	IR/ RW/ ACC Pump Room - Install ACC Condensate Pump	45	11-Feb-18	03-Apr-18	11-Feb-18	03-Apr-18	0%	0%	-101																			
Final Finishes																												
AB13500	Final coat of paint on wall	3	03-Apr-18	07-Apr-18	03-Apr-18	07-Apr-18	0%	0%	-101																			
AB13510	Sealer on floor	3	07-Apr-18	10-Apr-18	07-Apr-18	10-Apr-18	0%	0%	-101																			
AB13520	Door & ironmongeries installation	3	10-Apr-18	13-Apr-18	10-Apr-18	13-Apr-18	0%	0%	-101																			
TBE																												
Builders' Work																												
AB13530	Sealer on ceiling soffit & application of epoxy paint on wall	7	28-Jan-18	04-Feb-18	28-Jan-18	04-Feb-18	0%	0%	-38																			
Electrical Systems																												
BS10040	TBE - MEP 2nd Fix	14	04-Feb-18	21-Feb-18	04-Feb-18	21-Feb-18	0%	0%	-38																			
General Builders' Work																												
AB13320	Steel Post	14	01-Oct-17	16-Oct-17	01-Oct-17	16-Oct-17	100%	0%	-132																			
AB13330	Blockwall	20	17-Oct-17	06-Nov-17	17-Oct-17	06-Nov-17	100%	0%	-132																			
AB13340	Wall Plastering	14	06-Nov-17	20-Nov-17	06-Nov-17	20-Nov-17	100%	0%	-132																			
AB13350	Floor Screeding	7	20-Nov-17	27-Nov-17	20-Nov-17	27-Nov-17	100%	0%	-132																			
AB13360	Drywall (MEP concealed items, close up panel)	14	27-Nov-17	11-Dec																								

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
AB52110	FS Final fix - B2F Sector A	30	02-Mar-18	04-Apr-18	02-Mar-18	04-Apr-18	0%	0%	-101																		
HVAC System																											
AB52120	HVAC 1st fix - B2F Sector A	60	11-Dec-17	12-Feb-18	11-Dec-17	12-Feb-18	53.33%	0%	-101																		
AB52130	HVAC 2nd fix - B2F Sector A	69	12-Feb-18	29-Apr-18	12-Feb-18	29-Apr-18	0%	0%	-101																		
Workshops, Storages & Offices																											
I.S. Workshop Facility, MO EQ Room																											
AB13870	Skim coat, application of epoxy paint on wall and sealer on soffit & floor	14	24-Jan-18	06-Feb-18	24-Jan-18	06-Feb-18	100%	0%	-132																		
Exhibit Tech/Electrical Workroom, Corridor, Exhibit Lighting Electrical Shop/Storage, General Stor																											
AB13910	Skim coat, application of epoxy paint on wall and sealer on soffit & floor	14	07-Feb-18	23-Feb-18	07-Feb-18	23-Feb-18	64.29%	0%	-132																		
Chief Electrician Office																											
AB13940	Acoustic ceiling framework	14	15-Apr-18	28-Apr-18	15-Apr-18	28-Apr-18	0%	0%	-132																		
AB13950	MEP dropper	7	22-Apr-18	28-Apr-18	22-Apr-18	28-Apr-18	0%	0%	-132																		
AB13960	Acoustic ceiling close-up	7	29-Apr-18	06-May-18	29-Apr-18	06-May-18	0%	0%	-132																		
AB13970	Skim coat, application of epoxy paint on wall and sealer on floor	14	07-May-18	20-May-18	07-May-18	20-May-18	0%	0%	-132																		
I.S. Equipment Storage, Workroom 1, Workroom 2																											
AB13890	Skim coat, application of epoxy paint on wall and sealer on soffit & floor	14	28-Jan-18	11-Feb-18	28-Jan-18	11-Feb-18	0%	0%	-38																		
B2/F - Zone H (Sector B)																											
Plantrooms																											
DCS Chiller Plant																											
Builders' Work																											
AB11330	Concrete Plinth	5	23-Dec-17	29-Dec-17	23-Dec-17	29-Dec-17	100%	0%	-85																		
AB11340	Floor Screeding & wall rendering	8	30-Dec-17	07-Jan-18	30-Dec-17	07-Jan-18	0%	0%	-85																		
AB11350	Sealer on ceiling soffit & application of epoxy paint on wall	10	08-Jan-18	17-Jan-18	08-Jan-18	17-Jan-18	0%	0%	-85																		
BS Installation																											
AB52020	DCS Plant Room - MEP 2nd Fix	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-85																		
AB52030	DCS Plant Room - Install DCS Pumps	140	20-Feb-18	17-Jul-18	20-Feb-18	17-Jul-18	0%	0%	-75																		
Main Control Circuit Room																											
Builders' Work																											
AB11290	Steel Post	7	23-Dec-17	31-Dec-17	23-Dec-17	31-Dec-17	71.43%	0%	-85																		
AB11300	Blockwall	7	02-Jan-18	08-Jan-18	02-Jan-18	08-Jan-18	0%	0%	-85																		
AB11310	Wall Plastering	7	09-Jan-18	15-Jan-18	09-Jan-18	15-Jan-18	0%	0%	-85																		
AB11320	Floor Screeding	12	16-Jan-18	27-Jan-18	16-Jan-18	27-Jan-18	0%	0%	-85																		
AB11410	Wall tiling (1.5m high)	14	28-Jan-18	10-Feb-18	28-Jan-18	10-Feb-18	0%	0%	-85																		
AB11420	Sealer on ceiling soffit & application of epoxy paint on wall	7	11-Feb-18	20-Feb-18	11-Feb-18	20-Feb-																					

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Plumbing & Drainage																												
AB52190	P&D 1st fix - B2F Sector B	30	21-Jan-18	22-Feb-18	21-Jan-18	22-Feb-18	0%	0%	-85																			
AB52195	P&D 2nd fix - B2F Sector B	45	23-Feb-18	12-Apr-18	23-Feb-18	12-Apr-18	0%	0%	-85																			
FS System																												
AB52220	FS 1st fix - B2F Sector B	30	21-Jan-18	22-Feb-18	21-Jan-18	22-Feb-18	0%	0%	-85																			
AB52225	FS 2nd fix - B2F Sector B	45	23-Feb-18	12-Apr-18	23-Feb-18	12-Apr-18	0%	0%	-85																			
HVAC System																												
AB52250	HVAC 1st fix - B2F Sector B	60	21-Jan-18	24-Mar-18	21-Jan-18	24-Mar-18	0%	0%	-85																			
AB52255	HVAC 2nd fix - B2F Sector B	69	25-Mar-18	07-Jun-18	25-Mar-18	07-Jun-18	0%	0%	-85																			
B2/F - Zone A(Sector C)																												
Plantrooms																												
SH Water Tank/ Street Hydrant Tank																												
AB11910	Waterproofing & water test	12	29-Nov-17	10-Dec-17	29-Nov-17	10-Dec-17	100%	0%	-132																			
AB11920	Plastering work (inside tank)	10	11-Dec-17	20-Dec-17	11-Dec-17	20-Dec-17	100%	0%	-132																			
AB11930	Wall & floor tiling	14	21-Dec-17	06-Jan-18	21-Dec-17	06-Jan-18	100%	0%	-132																			
AB11950	Cat ladder	7	14-Jan-18	20-Jan-18	14-Jan-18	20-Jan-18	100%	0%	-132																			
AB11960	Hatch cover	7	21-Jan-18	27-Jan-18	21-Jan-18	27-Jan-18	100%	0%	-132																			
Grease Trap Room for Podium																												
Builders' Work																												
AB11550	Concrete plinth & waterproofing works	12	01-Nov-17	14-Nov-17	01-Nov-17	14-Nov-17	100%	0%	-87																			
AB11560	Floor Screeding	7	15-Nov-17	21-Nov-17	15-Nov-17	21-Nov-17	100%	0%	-102																			
AB11570	Wall rendering	7	22-Nov-17	28-Nov-17	22-Nov-17	28-Nov-17	100%	0%	-102																			
AB11580	Sealer on ceiling soffit & application of epoxy paint on wall	7	29-Nov-17	05-Dec-17	29-Nov-17	05-Dec-17	100%	0%	-102																			
BS Installation																												
AB11590	General building services installation	14	20-Dec-17	05-Jan-18	20-Dec-17	05-Jan-18	100%	0%	-102																			
AB11595	Install sewage pipes & SST grease trap tanks	14	06-Jan-18	19-Jan-18	06-Jan-18	19-Jan-18	78.57%	0%	-102																			
Final Finishes																												
AB11600	Final coat of paint on ceiling & wall	3	20-Jan-18	22-Jan-18	20-Jan-18	22-Jan-18	0%	0%	-102																			
AB11610	Sealer on floor	3	23-Jan-18	25-Jan-18	23-Jan-18	25-Jan-18	0%	0%	-102																			
M+ Water Pump Room																												
Builders' Work																												
AB11630	Concrete plinth & waterproofing works	12	22-Nov-17	03-Dec-17	22-Nov-17	03-Dec-17	100%	0%	-102																			
AB11640	Floor Screeding	7	04-Dec-17	10-Dec-17	04-Dec-17	10-Dec-17	100%	0%	-102																			
AB11650	Wall Rendering	7	11-Dec-17	17-Dec-17	11-Dec-17	17-Dec-17	100%	0%	-102																			
AB11660	Sealer on ceiling soffit & application of epoxy paint on wall	7																										

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December													
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08			
AB11860	Sealer on ceiling soffit & application of epoxy paint on wall	7	30-Jan-18	05-Feb-18	30-Jan-18	05-Feb-18	0%	0%	-102								16															
BS Installation																																
AB11870	MEP 2nd fix	15	23-Feb-18	09-Mar-18	23-Feb-18	09-Mar-18	0%	0%	-102																							
AB11875	Install FS Pump Set & SAT	30	10-Mar-18	12-Apr-18	10-Mar-18	12-Apr-18	0%	0%	-102																							
Final Finishes																																
AB11880	Final coat of paint on wall	3	13-Apr-18	15-Apr-18	13-Apr-18	15-Apr-18	0%	0%	-102																							
AB11890	Sealer on floor	3	16-Apr-18	18-Apr-18	16-Apr-18	18-Apr-18	0%	0%	-102																							
ICT Room																																
Builders' Work																																
AB12120	Blockwall	10	14-Jan-18	23-Jan-18	14-Jan-18	23-Jan-18	100%	0%	-132																							
AB12130	Plastering & screeding	5	24-Jan-18	28-Jan-18	24-Jan-18	28-Jan-18	100%	0%	-132																							
AB12135	Sealer on ceiling soffit & application of epoxy paint on wall	5	29-Jan-18	02-Feb-18	29-Jan-18	02-Feb-18	100%	0%	-132																							
BS Installation																																
AB12140	MEP 2nd fix & final fix	30	03-Feb-18	07-Mar-18	03-Feb-18	07-Mar-18	43.33%	0%	-132																							
Final Finishes																																
AB12150	Final coat of paint on wall	3	08-Mar-18	10-Mar-18	08-Mar-18	10-Mar-18	0%	0%	-132																							
AB12160	Sealer on floor	3	11-Mar-18	13-Mar-18	11-Mar-18	13-Mar-18	0%	0%	-132																							
ICT Riser																																
Builders' Work																																
AB12180	Blockwall	10	24-Jan-18	02-Feb-18	24-Jan-18	02-Feb-18	100%	0%	-132																							
AB12190	Plastering & screeding	5	03-Feb-18	07-Feb-18	03-Feb-18	07-Feb-18	100%	0%	-132																							
AB12195	Sealer on ceiling soffit & application of epoxy paint on wall	5	08-Feb-18	12-Feb-18	08-Feb-18	12-Feb-18	100%	0%	-132																							
BS Installation																																
AB12200	MEP 2nd & final fix	30	13-Feb-18	17-Mar-18	13-Feb-18	17-Mar-18	10%	0%	-132																							
Final Finishes																																
AB12210	Final coat of paint on wall	3	18-Mar-18	20-Mar-18	18-Mar-18	20-Mar-18	0%	0%	-132																							
AB12220	Sealer on floor	3	21-Mar-18	23-Mar-18	21-Mar-18	23-Mar-18	0%	0%	-132																							
Security Control Room																																
Builders' Work																																
AB11980	Blockwall	10	07-Jan-18	16-Jan-18	07-Jan-18	16-Jan-18	100%	0%	-132																							
AB11990	Plastering & screeding	5	17-Jan-18	21-Jan-18	17-Jan-18	21-Jan-18	100%	0%	-132																							
AB12000	Acoustic ceiling framework																															

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December																
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08						
AB11770	Sealer on ceiling soffit	7	27-Dec-17	03-Jan-18	27-Dec-17	03-Jan-18	100%	0%	-102																										
AB11775	Erect supporting frame	7	04-Jan-18	10-Jan-18	04-Jan-18	10-Jan-18	100%	0%	-102																										
BS Installation																																			
AB11780	BS Installation	14	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	92.86%	0%	-102																										
Final Finishes																																			
AB11810	Sealer on floor	3	18-Jan-18	20-Jan-18	18-Jan-18	20-Jan-18	0%	0%	-102																										
Lift Machine Room for LT-13																																			
Builders' Work																																			
AB11710	Sealer on ceiling soffit	7	18-Dec-17	24-Dec-17	18-Dec-17	24-Dec-17	100%	0%	-102																										
AB11720	Erect support frame	7	27-Dec-17	03-Jan-18	27-Dec-17	03-Jan-18	100%	0%	-102																										
BS Installation																																			
AB11730	BS Installation	14	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	92.86%	0%	-102																										
Final Finishes																																			
AB11750	Sealer on floor	3	18-Jan-18	20-Jan-18	18-Jan-18	20-Jan-18	0%	0%	-102																										
General Builders' Work																																			
AB11500	Blockwall	14	06-Mar-17	19-Mar-17	06-Mar-17 A	11-Oct-17	100%	34%	-128																										
AB11510	Wall Plastering	24	29-Jun-17	23-Jul-17	31-Mar-17 A	19-Oct-17	100%	25%	-112																										
AB11520	Floor Screeding	18	13-Oct-17	31-Oct-17	13-Oct-17	31-Oct-17	100%	0%	-102																										
AB11540	Drywall (MEP concealed items, close up panel)	26	01-Nov-17	26-Nov-17	01-Nov-17	26-Nov-17	100%	0%	-100																										
General BS Installation																																			
Electrical System																																			
AB52280	MEP 1st fix - B2F Sector C	30	15-Mar-17	16-Apr-17	15-Mar-17 A	22-Oct-17	100%	32%	-125																										
AB52290	MEP 2nd fix - B2F Sector C	45	10-Apr-17	29-May-17	10-Apr-17 A	30-Oct-17	100%	38%	-117																										
AB52300	MEP Final fix - B2F Sector C	30	31-Oct-17	29-Nov-17	31-Oct-17	29-Nov-17	100%	0%	-117																										
Plumbing & Drainage																																			
AB52310	P&D 1st fix - B2F Sector C	30	06-Feb-17	07-Mar-17	06-Feb-17 A	24-Oct-17	100%	24%	-127																										
AB52320	P&D 2nd fix - B2F Sector C	45	10-Apr-17	29-May-17	10-Apr-17 A	07-Nov-17	100%	20%	-125																										
AB52330	P&D Final fix - B2F Sector C	30	08-Nov-17	07-Dec-17	08-Nov-17	07-Dec-17	100%	0%	-125																										
FS System																																			
AB52340	FS 1st fix - B2F Sector C	30	15-Mar-17	16-Apr-17	15-Mar-17 A	22-Oct-17	100%	32%	-125																										

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September	October	November	December	January																			
										24	25	26	27	28																			
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08				
AB12420	Ceiling framework	21	31-Oct-17	20-Nov-17	31-Oct-17	20-Nov-17	100%	0%	-117																								
AB12430	MEP dropper	7	14-Nov-17	20-Nov-17	14-Nov-17	20-Nov-17	100%	0%	-117																								
AB12440	Ceiling close-up	14	21-Nov-17	04-Dec-17	21-Nov-17	04-Dec-17	100%	0%	-117																								
AB12450	Skim coat, application of sealer on wall, soffit and floor	14	05-Dec-17	18-Dec-17	05-Dec-17	18-Dec-17	100%	0%	-117																								
AB12460	Wall protection & corner guards installation	14	19-Dec-17	04-Jan-18	19-Dec-17	04-Jan-18	100%	0%	-117																								
AB12470	Door & ironmongeries installation	7	05-Jan-18	11-Jan-18	05-Jan-18	11-Jan-18	100%	0%	-117																								
Uniforms & Equipment Storage, RDE Storage, General Maintenance																																	
AB12480	Application of epoxy paint on wall and sealer on floor	21	19-Dec-17	11-Jan-18	19-Dec-17	11-Jan-18	100%	0%	-117																								
Security Briefing Room, Security Office, Security Locker Room																																	
AB12290	Acoustic ceiling framework	21	31-Oct-17	20-Nov-17	31-Oct-17	20-Nov-17	100%	0%	-117																								
AB12300	MEP dropper	7	14-Nov-17	20-Nov-17	14-Nov-17	20-Nov-17	100%	0%	-117																								
AB12310	Acoustic ceiling close up	14	21-Nov-17	04-Dec-17	21-Nov-17	04-Dec-17	100%	0%	-117																								
AB12320	Application of epoxy paint on wall	14	05-Dec-17	18-Dec-17	05-Dec-17	18-Dec-17	100%	0%	-117																								
Toilets																																	
Public Toilets & Toilet Lobby (Benchmark Toilet)																																	
Toilet Block																																	
AB50980	Waterproofing & water test complete	0			03-Dec-17		03-Dec-17	100%	0%	-107																							
AB50990	Protective floor screeding	2	04-Dec-17	05-Dec-17	04-Dec-17	05-Dec-17	100%	0%	-107																								
AB51000	Gypsum ceiling frameworjk	7	06-Dec-17	12-Dec-17	06-Dec-17	12-Dec-17	100%	0%	-107																								
AB51010	Wall tiling	14	14-Dec-17	29-Dec-17	14-Dec-17	29-Dec-17	100%	0%	-107																								
AB51020	Polished concrete floor (by others)	3	30-Dec-17	02-Jan-18	30-Dec-17	02-Jan-18	100%	0%	-107																								
AB51030	Gypsum ceiling close-up	5	08-Jan-18	12-Jan-18	08-Jan-18	12-Jan-18	100%	0%	-107																								
AB51040	Taping & jointing and painting on ceiling	7	13-Jan-18	19-Jan-18	13-Jan-18	19-Jan-18	100%	0%	-107																								
AB51050	Emulsion paint to wall gypsum board (Baby Room only)	7	20-Jan-18	26-Jan-18	20-Jan-18	26-Jan-18	28.57%	0%	-107																								
AB51060	Cubicle partition installation	7	27-Jan-18	02-Feb-18	27-Jan-18	02-Feb-18	0%	0%	-107																								
AB51070	Terrazzo countertop	5	03-Feb-18	07-Feb-18	03-Feb-18	07-Feb-18	0%	0%	-107																								
AB51080	Door & ironmongeries installation	3	08-Feb-18	10-Feb-18	08-Feb-18	10-Feb-18	0%	0%	-107																								
AB51090	Sanitary wares & fitting (by others)	5	11-Feb-18	15-Feb-18	11-Feb-18	15-Feb-18	0%	0%	-107																								
AB51100	Steel frame for vanity counter	7	07-Dec-17	13-Dec-17	07-Dec-17	13-Dec-17	100%	0%	-107																								
AB51110	MEP dropper	5	03-Jan-18	07-Jan-18	03-Jan-18	07-Jan-18	100%	0%	-107																								
AB51120	Mirror installation & cleaning work	4	18-Feb-18	22-Feb-18	18-Feb-18	22-Feb-18	0%	0%	-107																								
Toilet Lobby																																	
AB51130	Ceiling framework	7	10-Jan-18	16-Jan-18	10-Jan-18	16-Jan-18	100%	0%	-107																								
AB51140	Subframe & plywood furring for timber wall	6	17-Jan-18	22-Jan-18	17-Jan-18	22-Jan-18	83.33%	0%	-107																								
AB51150	MEP dropper	5	2																														

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
AB52470	MEP Final fix - B1F Sector A	30	23-Feb-18	24-Mar-18	23-Feb-18	24-Mar-18	0%	0%	-100																		
Plumbing & Drainage																											
AB52480	P&D 1st fix - B1F Sector A	30	04-Dec-17	05-Jan-18	04-Dec-17	05-Jan-18	100%	0%	-100																		
AB52490	P&D 2nd fix - B1F Sector A	45	06-Jan-18	22-Feb-18	06-Jan-18	22-Feb-18	20%	0%	-100																		
AB52500	P&D Final fix - B1F Sector A	30	23-Feb-18	24-Mar-18	23-Feb-18	24-Mar-18	0%	0%	-100																		
FS System																											
AB52510	FS 1st fix - B1F Sector A	30	04-Dec-17	05-Jan-18	04-Dec-17	05-Jan-18	100%	0%	-100																		
AB52520	FS 2nd fix - B1F Sector A	45	06-Jan-18	22-Feb-18	06-Jan-18	22-Feb-18	20%	0%	-100																		
AB52530	FS Final fix - B1F Sector A	30	23-Feb-18	24-Mar-18	23-Feb-18	24-Mar-18	0%	0%	-100																		
HVAC System																											
AB52540	HVAC 1st fix - B1F Sector A	60	04-Dec-17	04-Feb-18	04-Dec-17	04-Feb-18	65%	0%	-100																		
AB52550	HVAC 2nd fix - B1F Sector A	69	05-Feb-18	21-Apr-18	05-Feb-18	21-Apr-18	0%	0%	-100																		
Workshops, Storages & Offices																											
Property Control Room, Isolation & Treatment																											
AB13100	Acoustic ceiling framework	14	23-Feb-18	08-Mar-18	23-Feb-18	08-Mar-18	0%	0%	-100																		
AB13110	MEP dropper	7	02-Mar-18	08-Mar-18	02-Mar-18	08-Mar-18	0%	0%	-100																		
AB13120	Acoustic ceiling close-up	14	09-Mar-18	22-Mar-18	09-Mar-18	22-Mar-18	0%	0%	-100																		
AB13130	Application of epoxy paint on wall & sealer on floor	14	23-Mar-18	09-Apr-18	23-Mar-18	09-Apr-18	0%	0%	-100																		
AB13140	Wall protection & corner guards installation	14	10-Apr-18	23-Apr-18	10-Apr-18	23-Apr-18	0%	0%	-100																		
Moving Equipment Storage, Crate storage, General support storage																											
AB13160	Security shutters installation	14	24-Mar-18	10-Apr-18	24-Mar-18	10-Apr-18	0%	0%	-132																		
AB13170	Skim coat, application of epoxy paint on wall and sealer on soffit and f	14	10-Apr-18	23-Apr-18	10-Apr-18	23-Apr-18	0%	0%	-100																		
Lobby/ Lift Lobby																											
LT-14, LT-17 Lift Lobby																											
AB13250	Fire rated metal ceiling framework	14	23-Feb-18	08-Mar-18	23-Feb-18	08-Mar-18	0%	0%	-100																		
AB13260	MEP dropper	7	02-Mar-18	08-Mar-18	02-Mar-18	08-Mar-18	0%	0%	-100																		
AB13270	Fire rated metal ceiling close-out	7	09-Mar-18	15-Mar-18	09-Mar-18	15-Mar-18	0%	0%	-100																		
AB13280	Application of sealer on wall & floor	14	16-Mar-18	29-Mar-18	16-Mar-18	29-Mar-18	0%	0%	-100																		
AB13290	Door & ironmongeries installation	7	01-Apr-18	09-Apr-18	01-Apr-18	09-Apr-18	0%	0%	-100																		
Corridors																											
Corridor along ST-07B																											
AB13300	Skim coat, application of epoxy paint on wall & sealer on floor	14	01-Apr-18	16-Apr-18	01-Apr-18	16-Apr-18	0%	0%	-100																		
B2/F - Zone B1S2 (Sector F)																											
General Builder's Work																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December												
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08		
CSF Water Pump Room																															
Builder's Work																															
AB16240	Concrete plinth and waterproofing & water test complete (by others)	0		22-Feb-18		22-Feb-18	0%	0%	-106																						
AB16250	Floor Screeding & wall rendering	7	22-Feb-18	01-Mar-18	22-Feb-18	01-Mar-18	0%	0%	-106																						
AB16260	Sealer on ceiling soffit & application of epoxy paint on wall	7	01-Mar-18	08-Mar-18	01-Mar-18	08-Mar-18	0%	0%	-106																						
BS Installation																															
AB16270	CSF Water Pump Room - MEP 2nd fix	14	08-Mar-18	22-Mar-18	08-Mar-18	22-Mar-18	0%	0%	-106																						
AB16280	Install pump set & SAT	60	22-Mar-18	27-May-18	22-Mar-18	27-May-18	0%	0%	-106																						
General BS Installation																															
Electrical System																															
AB52680	MEP 1st fix - B2F Sector F	30	01-Dec-17	03-Jan-18	01-Dec-17	03-Jan-18	100%	0%	-106																						
AB52690	MEP 2nd fix - B2F Sector F	45	03-Jan-18	20-Feb-18	03-Jan-18	20-Feb-18	38.22%	0%	-106																						
AB52700	MEP Final fix - B2F Sector F	30	20-Feb-18	22-Mar-18	20-Feb-18	22-Mar-18	0%	0%	-106																						
Plumbing & Drainage																															
AB52710	P&D 1st fix - B2F Sector F	30	01-Dec-17	03-Jan-18	01-Dec-17	03-Jan-18	100%	0%	-106																						
AB52720	P&D 2nd fix - B2F Sector F	45	03-Jan-18	20-Feb-18	03-Jan-18	20-Feb-18	38.22%	0%	-106																						
AB52730	P&D Final fix - B2F Sector F	30	20-Feb-18	22-Mar-18	20-Feb-18	22-Mar-18	0%	0%	-106																						
FS System																															
AB52740	FS 1st fix - B2F Sector F	30	01-Dec-17	03-Jan-18	01-Dec-17	03-Jan-18	100%	0%	-106																						
AB52750	FS 2nd fix - B2F Sector F	45	03-Jan-18	20-Feb-18	03-Jan-18	20-Feb-18	38.22%	0%	-106																						
AB52760	FS Final fix - B2F Sector F	30	20-Feb-18	22-Mar-18	20-Feb-18	22-Mar-18	0%	0%	-106																						
HVAC System																															
AB52770	HVAC 1st fix - B2F Sector F	60	01-Dec-17	02-Feb-18	01-Dec-17	02-Feb-18	78.67%	0%	-106																						
AB52780	HVAC 2nd fix - B2F Sector F	69	02-Feb-18	19-Apr-18	02-Feb-18	19-Apr-18	0%	0%	-106																						
AB52790	HVAC Final fix - B2F Sector F	30	19-Apr-18	20-May-18	19-Apr-18	20-May-18	0%	0%	-106																						
Workshops, Storages & Offices																															
Refuse Room, Recycling Room																															
AB16320	Waterproofing works & water test	12	31-Dec-17	13-Jan-18	31-Dec-17	13-Jan-18	100%	0%	-106																						
AB16330	Protective screeding	7	13-Jan-18	20-Jan-18	13-Jan-18	20-Jan-18	100%	0%	-106																						
AB16340	Floor screeding	7	20-Jan-18	27-Jan-18	20-Jan-18	27-Jan-18	2.86%	0%	-106																						
AB16350	Tilling on Wall & floor	14	27-Jan-18	10-Feb-18	27-Jan-18	10-Feb-18	0%	0%	-106																						
AB16360	Application of sealer on soffit	7	10-Feb-18	20-Feb-18	10-Feb-18	20-Feb-18	0%	0%	-106																						
AB16370	Wall protection & corner guards installation	7	20-Feb-18	27-Feb-18	20-Feb-18	27-Feb-18	0%	0%	-106																						
AB16380	Door & ironmongeries installation	7	27-Feb-18	06-Mar-18																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
AB14350	Hatch cover	7	29-Nov-17	05-Dec-17	29-Nov-17	05-Dec-17	100%	0%	-102																		
Heat Exchanger Room																											
Builders' Work																											
AB14220	Concrete plinth and waterproofing works	12	19-Sep-17	30-Sep-17	26-Aug-17 A	09-Oct-17	100%	40%	-110																		
AB14230	Floor Screeding & wall rendering	7	23-Sep-17	30-Sep-17	14-Sep-17 A	08-Oct-17	100%	15%	-102																		
AB14240	Sealer on ceiling soffit & application of epoxy paint on wall	14	09-Oct-17	22-Oct-17	09-Oct-17	22-Oct-17	100%	0%	-102																		
BS Installation																											
AB14250	Heat Exchanger Room - MEP 2nd fix	15	23-Oct-17	07-Nov-17	23-Oct-17	07-Nov-17	100%	0%	-102																		
AB14260	Install heat exchanger	30	08-Nov-17	07-Dec-17	08-Nov-17	07-Dec-17	100%	0%	-102																		
Final Finishes																											
AB14270	Final coat of paint on wall	3	08-Dec-17	10-Dec-17	08-Dec-17	10-Dec-17	100%	0%	-102																		
AB14280	Sealer on floor	3	11-Dec-17	13-Dec-17	11-Dec-17	13-Dec-17	100%	0%	-102																		
AB14290	Door & ironmongerries installation	3	14-Dec-17	16-Dec-17	14-Dec-17	16-Dec-17	100%	0%	-101																		
ELE Room																											
Builders' Work																											
AB14370	Sealer on ceiling soffit & application of epoxy paint on wall	7	22-Nov-17	28-Nov-17	22-Nov-17	28-Nov-17	100%	0%	-102																		
BS Installation																											
AB14380	ELE Room - MEP 2nd fix	14	29-Nov-17	12-Dec-17	29-Nov-17	12-Dec-17	100%	0%	-102																		
AB14390	Install ELE system	30	13-Dec-17	14-Jan-18	13-Dec-17	14-Jan-18	100%	0%	-102																		
Final Finishes																											
AB14400	Final coat of paint on wall	3	15-Jan-18	17-Jan-18	15-Jan-18	17-Jan-18	66.67%	0%	-102																		
AB14410	Sealer on floor	3	18-Jan-18	20-Jan-18	18-Jan-18	20-Jan-18	0%	0%	-102																		
AB14420	Door & ironmongerries installation	3	21-Jan-18	23-Jan-18	21-Jan-18	23-Jan-18	0%	0%	-102																		
Grease Trap Room																											
Builders' Work																											
AB14430	Concrete plinth and waterproofing works	12	29-Nov-17	10-Dec-17	29-Nov-17	10-Dec-17	100%	0%	-102																		
AB14440	Floor Screeding & wall rendering	7	11-Dec-17	17-Dec-17	11-Dec-17	17-Dec-17	100%	0%	-102																		
AB14450	Sealer on ceiling soffit & application of epoxy paint on wall	14	18-Dec-17	03-Jan-18	18-Dec-17	03-Jan-18	100%	0%	-102																		
BS Installation																											
AB14460	Grease Trap Room - MEP 2nd fix	14	04-Jan-18	17-Jan-18	04-Jan-18	17-Jan-18	92.86%	0%	-102																		
AB14470	Install pipes & SST tanks	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-102																		
Final Finishes																											
AB14480	Final coat of paint on wall	3	20-Feb-18	22-Feb-18	20-Feb-18	22-Feb-18	0%	0%	-102																		
AB14490	Sealer on floor	3																									

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December													
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08						
RDE FS Tank Pump Room																																			
Builders' Work																																			
AB14590	Concrete plinth and waterproofing works	12	09-Jan-18	20-Jan-18	09-Jan-18	20-Jan-18	66.67%	0%	-102																										
AB14600	Floor Screeding & wall rendering	7	21-Jan-18	27-Jan-18	21-Jan-18	27-Jan-18	0%	0%	-102																										
AB14610	Sealer on ceiling soffit & application of epoxy paint on wall	7	28-Jan-18	03-Feb-18	28-Jan-18	03-Feb-18	0%	0%	-102																										
BS Installation																																			
AB14620	RDE FS Pump Room - MEP 2nd fix	14	04-Feb-18	20-Feb-18	04-Feb-18	20-Feb-18	0%	0%	-102																										
AB14630	Install FS Pump set & SAT	60	21-Feb-18	25-Apr-18	21-Feb-18	25-Apr-18	0%	0%	-102																										
Chilled Water Pump Room																																			
Builders' Work																																			
AB14670	Concrete plinth and waterproofing works	12	21-Jan-18	01-Feb-18	21-Jan-18	01-Feb-18	0%	0%	-102																										
AB14680	Floor Screeding & wall rendering	7	02-Feb-18	08-Feb-18	02-Feb-18	08-Feb-18	0%	0%	-102																										
AB14690	Sealer on ceiling soffit & application of epoxy paint on wall	7	09-Feb-18	15-Feb-18	09-Feb-18	15-Feb-18	0%	0%	-102																										
BS Installation																																			
AB14700	Chilled Water Pump Room - MEP 2nd fix	14	18-Feb-18	04-Mar-18	18-Feb-18	04-Mar-18	0%	0%	-102																										
AB14710	Install Chilled water pump set & SAT	60	05-Mar-18	08-May-18	05-Mar-18	08-May-18	0%	0%	-102																										
RDE E202 TBE Room																																			
Builders' Work																																			
AB14750	Sealer on ceiling soffit & application of epoxy paint on wall	7	18-Feb-18	25-Feb-18	18-Feb-18	25-Feb-18	0%	0%	-102																										
BS Installation																																			
AB14760	RDE E202 TBE - MEP 2nd fix	15	26-Feb-18	12-Mar-18	26-Feb-18	12-Mar-18	0%	0%	-102																										
AB14770	Install TBE system	30	27-Mar-18	29-Apr-18	27-Mar-18	29-Apr-18	0%	0%	-102																										
Mobile Equipment Room																																			
Builders' Work																																			
AB14810	Sealer on ceiling soffit & application of epoxy paint on wall	7	26-Feb-18	04-Mar-18	26-Feb-18	04-Mar-18	0%	0%	-102																										
BS Installation																																			
AB14820	Mobile Equipment Room - MEP 2nd fix	14	05-Mar-18	18-Mar-18	05-Mar-18	18-Mar-18	0%	0%	-102																										
AB14830	Mobile Equipment Room - MEP final fix	14	19-Mar-18	04-Apr-18	19-Mar-18	04-Apr-18	0%	0%	-102																										
Final Finishes																																			
AB14840	Final coat of paint on ceiling & wall	3	06-Apr-18	08-Apr-18	06-Apr-18	08-Apr-18	0%	0%	-102																										
AB14850	Sealer on floor	3	09-Apr-18	11-Apr-18	09-Apr-18	11-Apr-18	0%	0%	-102																										
E203 RDE Local ICT Room																																			
Builders' Work																																			

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
AB52830	P&D 1st fix - B2F Sector G	30	15-Nov-17	14-Dec-17	15-Nov-17	14-Dec-17	100%	0%	-132																			
AB52840	P&D 2nd fix - B2F Sector G	45	15-Dec-17	31-Jan-18	15-Dec-17	31-Jan-18	100%	0%	-132																			
AB52850	P&D Final fix - B2F Sector G	30	01-Feb-18	05-Mar-18	01-Feb-18	05-Mar-18	50%	0%	-132																			
FS System																												
AB52860	FS 1st fix - B2F Sector G	30	15-Nov-17	14-Dec-17	15-Nov-17	14-Dec-17	100%	0%	-132																			
AB52870	FS 2nd fix - B2F Sector G	45	15-Dec-17	31-Jan-18	15-Dec-17	31-Jan-18	100%	0%	-132																			
AB52880	FS Final fix - B2F Sector G	30	01-Feb-18	05-Mar-18	01-Feb-18	05-Mar-18	50%	0%	-132																			
HVAC System																												
AB52890	HVAC 1st fix - B2F Sector G	60	15-Nov-17	16-Jan-18	15-Nov-17	16-Jan-18	100%	0%	-132																			
AB52900	HVAC 2nd fix - B2F Sector G	69	17-Jan-18	29-Mar-18	17-Jan-18	29-Mar-18	43.48%	0%	-132																			
AB52910	HVAC Final fix - B2F Sector G	30	01-Apr-18	03-May-18	01-Apr-18	03-May-18	0%	0%	-132																			
Workshops, Storages & Offices																												
Receiving Courier Office																												
AB15320	Acoustic ceiling framework	21	01-Apr-18	23-Apr-18	01-Apr-18	23-Apr-18	0%	0%	-132																			
AB15330	MEP dropper	7	17-Apr-18	23-Apr-18	17-Apr-18	23-Apr-18	0%	0%	-132																			
AB15340	Acoustic ceiling close-up	14	24-Apr-18	08-May-18	24-Apr-18	08-May-18	0%	0%	-132																			
AB15350	Application of epoxy paint on wall & sealer on floor	14	09-May-18	23-May-18	09-May-18	23-May-18	0%	0%	-132																			
Loading Bays Security Booth																												
AB15380	Acoustic ceiling framework	21	01-Apr-18	23-Apr-18	01-Apr-18	23-Apr-18	0%	0%	-132																			
AB15390	MEP dropper	7	17-Apr-18	23-Apr-18	17-Apr-18	23-Apr-18	0%	0%	-132																			
AB15400	Acoustic ceiling close-up	14	24-Apr-18	08-May-18	24-Apr-18	08-May-18	0%	0%	-132																			
AB15420	Floor finishes	2	09-May-18	10-May-18	09-May-18	10-May-18	0%	0%	-132																			
Refuse Rooms (2 nos.)																												
AB15440	Wall & floor tiling	21	09-May-18	30-May-18	09-May-18	30-May-18	0%	0%	-132																			
Toilets																												
Unisex Toilet																												
AB15530	Waterproofing works & water test	12	04-Apr-18	16-Apr-18	04-Apr-18	16-Apr-18	0%	0%	-107																			
AB15540	Protective screeding	1	17-Apr-18	17-Apr-18	17-Apr-18	17-Apr-18	0%	0%	-107																			
AB15550	Floor screeding	1	18-Apr-18	18-Apr-18	18-Apr-18	18-Apr-18	0%	0%	-107																			
AB15560	Steel frame for vanity counter	1	19-Apr-18	19-Apr-18	19-Apr-18	19-Apr-18	0%	0%	-107																			
AB15570	Gypsum/ cement board ceiling framework	2	20-Apr-18	21-Apr-18	20-Apr-18	21-Apr-18	0%	0%	-107																			
AB15580	Wall & floor tiling	7	22-Apr-18	28-Apr-18	22-Apr-18	28-Apr-18	0%	0%	-107																			
Lobby/ Lift Lobby																												
LT-55 Fireman's Lift Lobby, LT-56 Lift Lobby																												
AB15660	Fire rated metal ceiling framework	21	01-Apr-18	23-Apr-18	01-Apr-18	23-Apr-18	0%	0%	-132																			
AB15670	MEP dropper	7	17-Apr-18	23-Apr-18	17-Apr-18	23-Apr-18	0%	0%	-132																			
AB15680	Fire rated metal ceiling close-up	14	24-Apr-18	08-May-18	24-Apr-18	08-May-18	0%	0%	-132																			
AB15690	Application of sealer on wall & floor	14	09-May-18	23-May-18	09-May-18	23-May-18</td																						

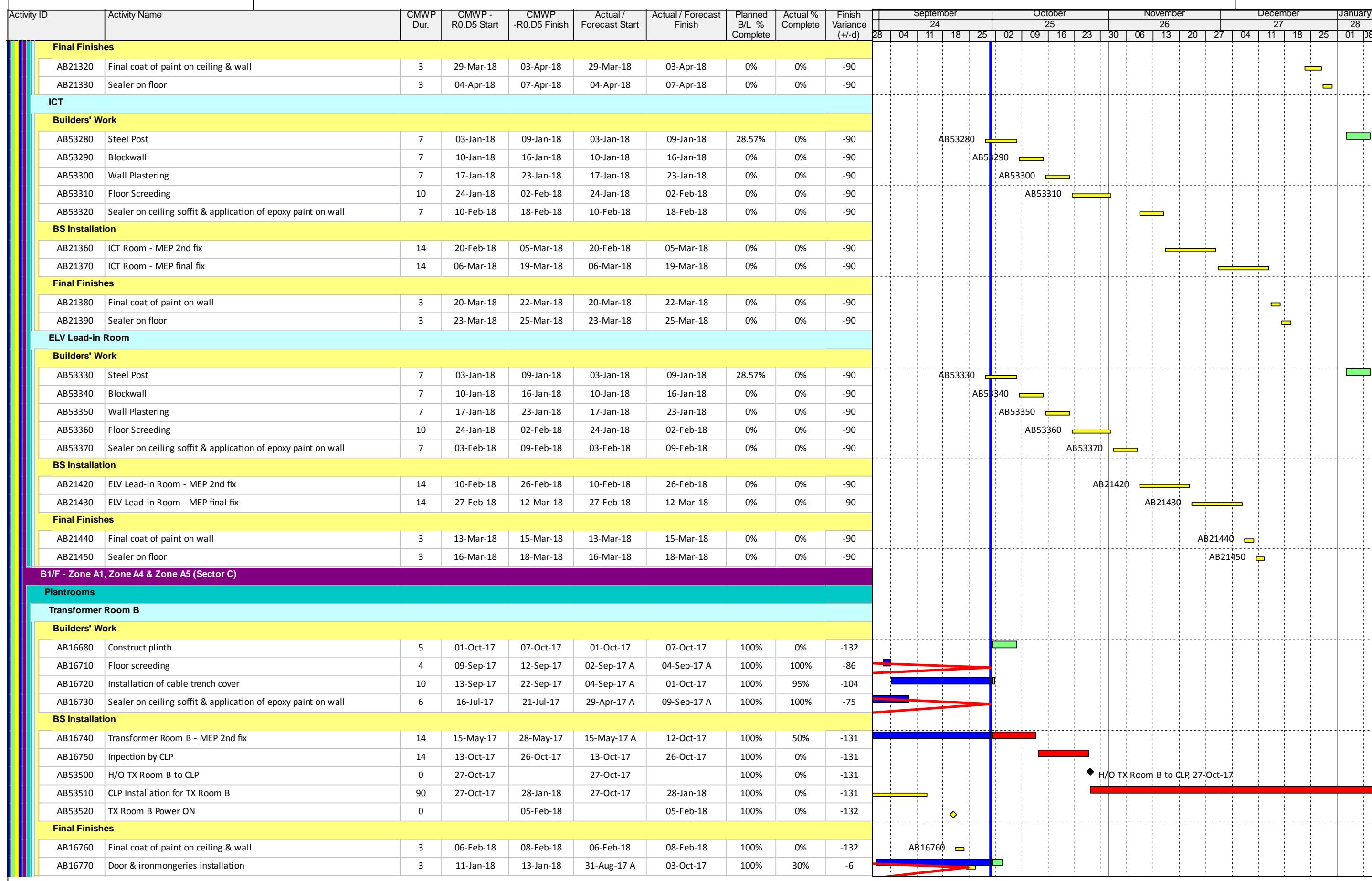
Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
AB19160	Floor Screeding	21	14-Dec-17	06-Jan-18	14-Dec-17	06-Jan-18	0%	0%	-58																		
AB19170	Drywall (MEP concealed items, close up panel)	21	07-Jan-18	27-Jan-18	07-Jan-18	27-Jan-18	0%	0%	-58																		
General BS Installation																											
Electrical System																											
AB52920	MEP 1st fix - B1F Sector A	30	30-Nov-17	31-Dec-17	30-Nov-17	31-Dec-17	3.33%	0%	-58																		
AB52930	MEP 2nd fix - B1F Sector A	45	02-Jan-18	15-Feb-18	02-Jan-18	15-Feb-18	0%	0%	-58																		
AB52940	MEP Final fix - B1F Sector A	30	18-Feb-18	20-Mar-18	18-Feb-18	20-Mar-18	0%	0%	-58																		
Plumbing & Drainage																											
AB52950	P&D 1st fix - B1F Sector A	30	30-Nov-17	31-Dec-17	30-Nov-17	31-Dec-17	3.33%	0%	-58																		
AB52960	P&D 2nd fix - B1F Sector A	45	02-Jan-18	15-Feb-18	02-Jan-18	15-Feb-18	0%	0%	-58																		
AB52970	P&D Final fix - B1F Sector A	30	18-Feb-18	20-Mar-18	18-Feb-18	20-Mar-18	0%	0%	-58																		
FS System																											
AB52980	FS 1st fix - B1F Sector A	30	30-Nov-17	31-Dec-17	30-Nov-17	31-Dec-17	3.33%	0%	-58																		
AB52990	FS 2nd fix - B1F Sector A	45	02-Jan-18	15-Feb-18	02-Jan-18	15-Feb-18	0%	0%	-58																		
AB53000	FS Final fix - B1F Sector A	30	18-Feb-18	20-Mar-18	18-Feb-18	20-Mar-18	0%	0%	-58																		
HVAC System																											
AB53010	HVAC 1st fix - B1F Sector A	60	30-Nov-17	31-Jan-18	30-Nov-17	31-Jan-18	1.67%	0%	-58																		
AB53020	HVAC 2nd fix - B1F Sector A	65	01-Feb-18	13-Apr-18	01-Feb-18	13-Apr-18	0%	0%	-58																		
Plantrooms																											
MEP																											
AB19180	Sealer on ceiling soffit & application of epoxy paint on wall	7	18-Feb-18	25-Feb-18	18-Feb-18	25-Feb-18	0%	0%	-58																		
BS Installation																											
AB19190	MEP Room - MEP 2nd fix	14	26-Feb-18	11-Mar-18	26-Feb-18	11-Mar-18	0%	0%	-58																		
Network Operation Centre																											
AB19250	Acoustic ceiling framework	7	18-Feb-18	25-Feb-18	18-Feb-18	25-Feb-18	0%	0%	-58																		
AB19260	Skim coat, application of epoxy paint on wall	4	26-Feb-18	01-Mar-18	26-Feb-18	01-Mar-18	0%	0%	-58																		
Central Control Equipment Room																											
AB19330	Acoustic ceiling framework	7	18-Feb-18	25-Feb-18	18-Feb-18	25-Feb-18	0%	0%	-58																		
AB19340	Skim coat, application of epoxy paint on wall	4	26-Feb-18	01-Mar-18	26-Feb-18	01-Mar-18	0%	0%	-58																		
Central Control Centre																											
AB19410	Acoustic ceiling framework	7	18-Feb-18	25-Feb-18	18-Feb-18	25-Feb-18	0%	0%	-58																		
AB19420	Skim coat, application of epoxy paint on wall	4	26-Feb-18	01-Mar-18	26-Feb-18	01-Mar-18	0%	0%	-58																		
Workshops, Storages & Offices																											
Catering Cable &amp																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January				
										24	25	26	27	28	01	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08				
AB50710	Expanded metal ceiling framework	28	18-Feb-18	18-Mar-18	18-Feb-18	18-Mar-18	0%	0%	-58																									
Kitchen																																		
Catering Kitchen																																		
AB19660	Waterproofing works	14	18-Feb-18	04-Mar-18	18-Feb-18	04-Mar-18	0%	0%	-58																									
Cafe Kitchen & Corridor (Late access)																																		
AB19740	Waterproofing works	14	18-Feb-18	04-Mar-18	18-Feb-18	04-Mar-18	0%	0%	-58																									
Lobby/ Lift Lobby																																		
AB20070	Fire rated metal ceiling framework	21	18-Feb-18	11-Mar-18	18-Feb-18	11-Mar-18	0%	0%	-58																									
Corridors																																		
Corridors (BOH)																																		
AB20130	Fire rated metal ceiling framework	14	18-Feb-18	04-Mar-18	18-Feb-18	04-Mar-18	0%	0%	-58																									
AB20140	MEP dropper	7	26-Feb-18	04-Mar-18	26-Feb-18	04-Mar-18	0%	0%	-58																									
B1/F - Zone H, Zone G, Zone J, Zone K & Zone L (Sector B)																																		
Plantrooms																																		
Transformer Room C																																		
Builders' Work																																		
AB21130	Construct plinth	5	03-Jan-18	07-Jan-18	03-Jan-18	07-Jan-18	40%	0%	-90																									
AB21140	Wall rendering	9	08-Jan-18	16-Jan-18	08-Jan-18	16-Jan-18	0%	0%	-90																									
AB21150	Wall tiling (1.5m high)	10	17-Jan-18	26-Jan-18	17-Jan-18	26-Jan-18	0%	0%	-90																									
AB21160	Floor screeding	6	27-Jan-18	01-Feb-18	27-Jan-18	01-Feb-18	0%	0%	-90																									
AB21170	Installation of cable trench cover	3	02-Feb-18	04-Feb-18	02-Feb-18	04-Feb-18	0%	0%	-90																									
AB21180	Sealer on ceiling soffit & application of epoxy paint on wall	6	05-Feb-18	10-Feb-18	05-Feb-18	10-Feb-18	0%	0%	-90																									
BS Installation																																		
AB21190	Transformer Room C - MEP 2nd fix	30	11-Feb-18	15-Mar-18	11-Feb-18	15-Mar-18	0%	0%	-90																									
AB21200	Inspection by CLP	14	16-Mar-18	29-Mar-18	16-Mar-18	29-Mar-18	0%	0%	-90																									
AHU Room																																		
Builders' Work																																		
AB53180	Steel Post	7	03-Jan-18	09-Jan-18	03-Jan-18	09-Jan-18	28.57%	0%	-90																									
AB53190	Blockwall	14	10-Jan-18	23-Jan-18	10-Jan-18	23-Jan-18	0%	0%	-90																									
AB53200	Wall Plastering	14	24-Jan-18	06-Feb-18	24-Jan-18	06-Feb-18	0%	0%	-90																									
AB53210	Floor Screeding	10	07-Feb-18	18-Feb-18	07-Feb-18	18-Feb-18	0%	0%	-90																									
AB53220	Sealer on ceiling soffit & application of epoxy paint on wall	7	20-Feb-18	26-Feb-18	20-Feb-18	26-Feb-18	0%	0%	-90																									
BS Installation																																		
AB21240	AHU Room - MEP 2nd fix	14	27-Feb-18	12-Mar-18	27-Feb-18	12-Mar-18	0%	0%	-90																									
AB21250	AHU Room - Install AHU system	30	13-Mar-18	15-Apr-18	13-Mar-18	15-Apr-18	0%	0%	-90																									
ELV																																		
Builders' Work																																		
AB53230	Steel Post	7	03-Jan-18	09-Jan-18	03-Jan-18	09-Jan-18	28.57%	0%	-																									

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September



Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-)	September			October			November			December			January		
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	01
BS Installation																								
AB17070	Main I.T. Room - MEP 2nd fix	14	07-Oct-17	20-Oct-17	07-Oct-17	20-Oct-17	100%	0%	-102															
AB17080	Main I.T. Room - MEP Final fix	14	21-Oct-17	04-Nov-17	21-Oct-17	04-Nov-17	100%	0%	-102															
Final Finishes																								
AB17090	Final coat of paint on wall	3	05-Nov-17	07-Nov-17	05-Nov-17	07-Nov-17	100%	0%	-102															
AB17100	Door & ironmongerries installation	3	21-Feb-18	23-Feb-18	21-Feb-18	23-Feb-18	0%	0%	-101															
TBE																								
Builder's Work																								
AB53620	Construct plinth	5	01-Oct-17	07-Oct-17	01-Oct-17	07-Oct-17	100%	0%	-132															
AB53630	Wall rendering	9	21-Sep-17	29-Sep-17	11-Sep-17 A	07-Oct-17	100%	50%	-123															
AB53640	Wall tiling (1.5m high)	10	08-Oct-17	17-Oct-17	08-Oct-17	17-Oct-17	100%	0%	-123															
AB53650	Floor screeding	4	18-Oct-17	21-Oct-17	18-Oct-17	21-Oct-17	100%	0%	-123															
AB53660	Sealer on ceiling soffit & application of epoxy paint on wall	6	16-Oct-17	21-Oct-17	14-Sep-17 A	06-Oct-17	100%	0%	-102															
BS Installation																								
AB17130	TBE Room - MEP 2nd fix	14	07-Oct-17	20-Oct-17	07-Oct-17	20-Oct-17	100%	0%	-102															
AB17140	TBE Room - MEP final fix	14	21-Oct-17	04-Nov-17	21-Oct-17	04-Nov-17	100%	0%	-102															
Final Finishes																								
AB17150	Final coat of paint on wall	3	05-Nov-17	07-Nov-17	05-Nov-17	07-Nov-17	100%	0%	-102															
AB17160	Sealer on floor	3	08-Nov-17	10-Nov-17	08-Nov-17	10-Nov-17	100%	0%	-102															
AB17170	Door & ironmongerries installation	3	24-Feb-18	26-Feb-18	24-Feb-18	26-Feb-18	0%	0%	-101															
ELV																								
Builders' Work																								
AB53670	Construct plinth	5	01-Oct-17	07-Oct-17	01-Oct-17	07-Oct-17	100%	0%	-132															
AB53680	Wall rendering	9	08-Oct-17	16-Oct-17	08-Oct-17	16-Oct-17	100%	0%	-132															
AB53690	Wall tiling (1.5m high)	10	17-Oct-17	26-Oct-17	17-Oct-17	26-Oct-17	100%	0%	-132															
AB53700	Floor screeding	4	27-Oct-17	31-Oct-17	27-Oct-17	31-Oct-17	100%	0%	-132															
AB53710	Sealer on ceiling soffit & application of epoxy paint on wall	6	01-Nov-17	06-Nov-17	01-Nov-17	06-Nov-17	100%	0%	-132															
BS Installation																								
AB17190	ELV Room - MEP 2nd fix	14	07-Nov-17	20-Nov-17	07-Nov-17	20-Nov-17	100%	0%	-132															
AB17200	ELV Room - Install ELV system	30	21-Nov-17	20-Dec-17	21-Nov-17	20-Dec-17	100%	0%	-132															
Final Finishes																								
AB17210	Final coat of paint on ceiling & wall	3	21-Dec-17	23-Dec-17	21-Dec-17	23-Dec-17	100%	0%	-132															
AB17220	Sealer on floor	3	24-Dec-17	28-Dec-17	24-Dec-17	28-Dec-17	100%	0%	-132															
AB17230	Door & ironmongerries installation	3	27-Feb-18	01-Mar-18	27-Feb-18	01-Mar-18	0%	0%	-101															
ICT Riser																								
Builders' Work																								
AB53720	Construct plinth	5	01-Oct-17	07-Oct-17	01-Oct-17	07-Oct-17	100%	0%	-132															
AB53730	Wall rendering	9	08-Oct-17	16-Oct-17	08-Oct-17	16-Oct-17	100%	0%	-132															
AB53740	Wall tiling (1.5m high)	10	17-Oct-17	26-Oct-17	17-Oct-17	26-Oct-17	100%	0%	-132															
AB53750	Floor screeding	4	27-Oct-17	31-Oct-17	27-Oct-17	31-Oct-17	100%	0%	-132															
AB53760	Sealer on ceiling soffit & application of epoxy paint on wall	6	01-Nov-17	06-Nov-17	01-Nov-17	06-Nov-17	100%	0%	-132															
BS Installation																								
AB17250	ICT Riser - MEP 2nd fix	14	07-Nov-17	20-Nov-17	07-Nov-17	20-Nov-17	100%	0%	-132															
AB17260	ICT Riser - MEP final fix	14	21-Nov-17	04-Dec-17	21-Nov-17	04-Dec-17	100%	0%	-132															
Final Finishes																								
AB17270	Final coat of paint on wall	3	05-Dec-17	07-Dec-17	05-Dec-17	07-Dec-17	100%	0%	-132															

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
AB17280	Sealer on floor	3	08-Dec-17	10-Dec-17	08-Dec-17	10-Dec-17	100%	0%	-132																		
AB17290	Door & ironmongeries installation	3	02-Mar-18	04-Mar-18	02-Mar-18	04-Mar-18	0%	0%	-101																		
General Builders' Work																											
AB16620	Steel Post	10	04-Jan-18	13-Jan-18	04-Jan-18	13-Jan-18	0%	0%	-89																		
AB16630	Blockwall	14	14-Jan-18	27-Jan-18	14-Jan-18	27-Jan-18	0%	0%	-89																		
AB16640	Wall Plastering	21	28-Jan-18	20-Feb-18	28-Jan-18	20-Feb-18	0%	0%	-89																		
AB16650	Floor Screeding	21	11-Feb-18	06-Mar-18	11-Feb-18	06-Mar-18	0%	0%	-89																		
AB16670	Drywall (MEP concealed items, close up panel)	28	07-Mar-18	07-Apr-18	07-Mar-18	07-Apr-18	0%	0%	-89																		
General BS Installation																											
Electrical System																											
AB53380	MEP 1st fix - B1F Sector C	30	28-Jan-18	01-Mar-18	28-Jan-18	01-Mar-18	0%	0%	-89																		
AB53390	MEP 2nd fix - B1F Sector C	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-89																		
Plumbing & Drainage																											
AB53410	P&D 1st fix - B1F Sector C	30	28-Jan-18	01-Mar-18	28-Jan-18	01-Mar-18	0%	0%	-89																		
AB53420	P&D 2nd fix - B1F Sector C	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-89																		
FS System																											
AB53440	FS 1st fix - B1F Sector C	30	28-Jan-18	01-Mar-18	28-Jan-18	01-Mar-18	0%	0%	-89																		
AB53450	FS 2nd fix - B1F Sector C	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-89																		
HVAC System																											
AB53470	HVAC 1st fix - B1F Sector C	30	28-Jan-18	01-Mar-18	28-Jan-18	01-Mar-18	0%	0%	-89																		
AB53480	HVAC 2nd fix - B1F Sector C	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-89																		
Workshops, Storages & Offices																											
Group Check-in, Luggage/ General Storage 1																											
AB17530	Maintenance platform	45	03-Apr-18	19-May-18	03-Apr-18	19-May-18	0%	0%	-113																		
Changing Rooms & Shower Rooms																											
Staff Changing Rooms, Shower Rooms																											
AB17590	Waterproofing works & water test	12	07-Mar-18	18-Mar-18	07-Mar-18	18-Mar-18	0%	0%	-89																		
AB17600	Protective screeding	7	19-Mar-18	25-Mar-18	19-Mar-18	25-Mar-18	0%	0%	-89																		
AB17610	Floor screeding	7	26-Mar-18	04-Apr-18	26-Mar-18	04-Apr-18	0%	0%	-89																		
Toilets																											
Public Toilets, Staff Toilets																											
AB17700	Waterproofing works & water test	12	07-Mar-18	18-Mar-18	07-Mar-18	18-Mar-18	0%	0%	-89																		
AB17710	Protective screeding	7	19-Mar-18	25-Mar-18	19-Mar-18	25-Mar-18	0%	0%	-89																		
AB17720	Floor screeding	7	26-Mar-18	04-Apr-18																							

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January	
										24					25					26					27					28	
AB20555	Carriageway LV Switch Room - Install Carriageway LV Switchboard	60	12-Dec-17	12-Feb-18	12-Dec-17	12-Feb-18	0%	0%	-59	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08		
Final Finishes										24					25					26					27					28	
AB20560	Final coat of paint on wall	3	13-Feb-18	15-Feb-18	13-Feb-18	15-Feb-18	0%	0%	-59	24					25					26					27					28	
AB20570	Sealer on floor	3	18-Feb-18	21-Feb-18	18-Feb-18	21-Feb-18	0%	0%	-59	24					25					26					27					28	
B1/F - Zone GFT5 (Sector F)										24					25					26					27					28	
General Builders' Work										24					25					26					27					28	
AB18650	Steel Post	10	20-Oct-17	30-Oct-17	20-Oct-17	30-Oct-17	100%	0%	-88	24					25					26					27					28	
AB18660	Blockwall	14	31-Oct-17	13-Nov-17	31-Oct-17	13-Nov-17	100%	0%	-88	24					25					26					27					28	
AB18670	Wall Plastering	14	14-Nov-17	27-Nov-17	14-Nov-17	27-Nov-17	100%	0%	-88	24					25					26					27					28	
AB18680	Floor Screeding	21	28-Nov-17	18-Dec-17	28-Nov-17	18-Dec-17	100%	0%	-88	24					25					26					27					28	
General BS Installation										24					25					26					27					28	
Electrical System										24					25					26					27					28	
AB53940	MEP 1st fix - B1F Sector F	30	14-Nov-17	13-Dec-17	14-Nov-17	13-Dec-17	100%	0%	-88	24					25					26					27					28	
AB53950	MEP 2nd fix - B1F Sector F	45	14-Dec-17	30-Jan-18	14-Dec-17	30-Jan-18	37.78%	0%	-88	24					25					26					27					28	
AB53960	MEP Final fix - B1F Sector F	30	31-Jan-18	04-Mar-18	31-Jan-18	04-Mar-18	0%	0%	-88	24					25					26					27					28	
Plumbing & Drainage										24					25					26					27					28	
AB53970	P&D 1st fix - B1F Sector F	30	14-Nov-17	13-Dec-17	14-Nov-17	13-Dec-17	100%	0%	-88	24					25					26					27					28	
AB53980	P&D 2nd fix - B1F Sector F	45	14-Dec-17	30-Jan-18	14-Dec-17	30-Jan-18	37.78%	0%	-88	24					25					26					27					28	
AB53990	P&D Final fix - B1F Sector F	30	31-Jan-18	04-Mar-18	31-Jan-18	04-Mar-18	0%	0%	-88	24					25					26					27					28	
FS System										24					25					26					27					28	
AB54000	FS 1st fix - B1F Sector F	30	14-Nov-17	13-Dec-17	14-Nov-17	13-Dec-17	100%	0%	-88	24					25					26					27					28	
AB54010	FS 2nd fix - B1F Sector F	45	14-Dec-17	30-Jan-18	14-Dec-17	30-Jan-18	37.78%	0%	-88	24					25					26					27					28	
AB54020	FS Final fix - B1F Sector F	30	31-Jan-18	04-Mar-18	31-Jan-18	04-Mar-18	0%	0%	-88	24					25					26					27					28	
HVAC System										24					25					26					27					28	
AB54030	HVAC 1st fix - B1F Sector F	30	14-Nov-17	13-Dec-17	14-Nov-17	13-Dec-17	100%	0%	-88	24					25					26					27						

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December													
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08						
Carriageway SEF Room																																			
Builders' Work																																			
AB18250	Sealer on ceiling soffit & on wall	7	09-Dec-17	15-Dec-17	09-Dec-17	15-Dec-17	100%	0%	-85																										
BS Installation																																			
AB18260	Carriageway SEF Room - MEP 2nd fix	14	16-Dec-17	31-Dec-17	16-Dec-17	31-Dec-17	85.71%	0%	-85																										
AB18270	Carriageway SEF Room - MEP final fix	14	02-Jan-18	15-Jan-18	02-Jan-18	15-Jan-18	0%	0%	-85																										
Final Finishes																																			
AB18280	Final coat of paint on wall	3	16-Jan-18	18-Jan-18	16-Jan-18	18-Jan-18	0%	0%	-85																										
AB18290	Sealer on floor	3	19-Jan-18	21-Jan-18	19-Jan-18	21-Jan-18	0%	0%	-85																										
AB18300	Door & ironmongerries installation	3	10-Feb-18	12-Feb-18	10-Feb-18	12-Feb-18	0%	0%	-73																										
RDE ELE Room & Lobby																																			
Builders' Work																																			
AB18310	Sealer on ceiling soffit & on wall	7	16-Dec-17	22-Dec-17	16-Dec-17	22-Dec-17	100%	0%	-85																										
BS Installation																																			
AB18320	RDE ELE Room & Lobby - MEP 2nd fix	14	23-Dec-17	08-Jan-18	23-Dec-17	08-Jan-18	35.71%	0%	-85																										
AB18330	RDE ELE Room & Lobby - MEP final fix	14	09-Jan-18	22-Jan-18	09-Jan-18	22-Jan-18	0%	0%	-85																										
Final Finishes																																			
AB18340	Final coat of paint on wall	3	23-Jan-18	25-Jan-18	23-Jan-18	25-Jan-18	0%	0%	-85																										
AB18350	Sealer on floor	3	26-Jan-18	28-Jan-18	26-Jan-18	28-Jan-18	0%	0%	-85																										
AB18360	Door & ironmongerries installation	3	13-Feb-18	15-Feb-18	13-Feb-18	15-Feb-18	0%	0%	-73																										
ICT																																			
Builders' Work																																			
AB18430	Sealer on ceiling soffit & on wall	7	16-Dec-17	22-Dec-17	16-Dec-17	22-Dec-17	100%	0%	-85																										
BS Installation																																			
AB18440	ICT Room - MEP 2nd fix	14	23-Dec-17	08-Jan-18	23-Dec-17	08-Jan-18	35.71%	0%	-85																										
AB18450	ICT Room - MEP final fix	14	09-Jan-18	22-Jan-18	09-Jan-18	22-Jan-18	0%	0%	-85																										
Final Finishes																																			
AB18460	Final coat of paint on wall	3	23-Jan-18	25-Jan-18	23-Jan-18	25-Jan-18	0%	0%	-85																										
AB18470	Sealer on floor	3	26-Jan-18	28-Jan-18	26-Jan-18	28-Jan-18	0%	0%	-85																										
AB18480	Door & ironmongerries installation	3	22-Feb-18	24-Feb-18	22-Feb-18	24-Feb-18	0%	0%	-73																										
Lighting Control Centre																																			
Builders' Work																																			
AB18490	Sealer on ceiling soffit & on wall	7	23-Dec-17	31-Dec-17	23-Dec-17	31-Dec-17	71.43%																												

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September		October		November		December		January	
										24	25	26	27	28	01	02	03	04	
AB22660	Concrete plinth and waterproofing works	12	21-Jan-18	01-Feb-18	21-Jan-18	01-Feb-18	58.33%	0%	-113										
AB22670	Floor Screeding & wall rendering	7	02-Feb-18	08-Feb-18	02-Feb-18	08-Feb-18	0%	0%	-113										
AB22680	Sealer on ceiling soffit & application of epoxy paint on wall	3	09-Feb-18	11-Feb-18	09-Feb-18	11-Feb-18	0%	0%	-113										
BS Installation										28	04	11	18	25	02	09	16	23	30
AB22690	Extract Fan Room - MEP 2nd fix	14	12-Feb-18	28-Feb-18	12-Feb-18	28-Feb-18	0%	0%	-113										
AB22700	Extract Fan Room - Install extraction fan	30	01-Mar-18	01-Apr-18	01-Mar-18	01-Apr-18	0%	0%	-113										
Final Finishes																			
AB22710	Final coat of paint on wall	3	03-Apr-18	06-Apr-18	03-Apr-18	06-Apr-18	0%	0%	-113										
AB22720	Sealer on floor	3	07-Apr-18	09-Apr-18	07-Apr-18	09-Apr-18	0%	0%	-113										
AB22730	Door & ironmongerries installation	3	10-Apr-18	12-Apr-18	10-Apr-18	12-Apr-18	0%	0%	-113										
Carriageway SEF Room																			
Builders' Work																			
AB22740	Sealer on ceiling soffit & on wall	7	12-Feb-18	21-Feb-18	12-Feb-18	21-Feb-18	0%	0%	-113						AB22740				
BS Installation																			
AB22750	Carriageway SEF Room - MEP 2nd fix	5	22-Feb-18	26-Feb-18	22-Feb-18	26-Feb-18	0%	0%	-113						AB22750				
AB22760	Carriageway SEF Room - MEP final fix	5	27-Feb-18	03-Mar-18	27-Feb-18	03-Mar-18	0%	0%	-113						AB22760				
Final Finishes																			
AB22770	Final coat of paint on wall	3	04-Mar-18	06-Mar-18	04-Mar-18	06-Mar-18	0%	0%	-113						AB22770				
AB22780	Sealer on floor	3	07-Mar-18	09-Mar-18	07-Mar-18	09-Mar-18	0%	0%	-113						AB22780				
AB22790	Door & ironmongerries installation	3	13-Apr-18	15-Apr-18	13-Apr-18	15-Apr-18	0%	0%	-113										
Extract Fan Carpark																			
Builders' Work																			
AB22580	Concrete plinth and waterproofing works	12	29-Dec-17	10-Jan-18	29-Dec-17	10-Jan-18	100%	0%	-113										
AB22590	Floor Screeding & wall rendering	7	11-Jan-18	17-Jan-18	11-Jan-18	17-Jan-18	100%	0%	-113						AB22590				
AB22600	Sealer on ceiling soffit & application of epoxy paint on wall	3	18-Jan-18	20-Jan-18	18-Jan-18	20-Jan-18	100%	0%	-113							AB22600			
BS Installation																			
AB22610	Extract Fan Carpark - MEP 2nd fix	14	21-Jan-18	03-Feb-18	21-Jan-18	03-Feb-18	50%	0%	-113						AB22610				
AB22620	Extract Fan Carpark - MEP final fix	14	04-Feb-18	20-Feb-18	04-Feb-18	20-Feb-18	0%	0%	-113						AB22620				
Final Finishes																			
AB22630	Final coat of paint on wall	3	21-Feb-18	23-Feb-18	21-Feb-18	23-Feb-18	0%	0%	-113						AB22630				
AB22640	Sealer on floor	3	24-Feb-18	26-Feb-18	24-Feb-18	26-Feb-18	0%	0%	-113						AB22640				
AB22650	Door & ironmongerries installation	3	27-Feb-18	01-Mar-18	27-Feb-18	01-Mar-18	0%	0%	-113						AB22650				
LG/F - Zone LGFU1 & LGFU3 (Sector G)																			
General Builders' Work																			
AB21990	Steel Post	14	01-Oct-17	16-Oct-17	01-Oct-17	16-Oct-17	100%	0%	-95										
AB22000	Blockwall	14	17-Oct-17	31-Oct-17	17-Oct-17	31-Oct-17	100%	0%	-95						AB22000				
AB22010	Wall Plastering	14	01-Nov-17	14-Nov-17	01-Nov-17	14-Nov-17	100%	0%	-95							AB22010			
AB22020	Floor Screeding	21	15-Nov-17	05-Dec-17	15-Nov-17	05-Dec-17	100%	0%	-95						AB22020				
AB22030	Drywall (MEP concealed items, close up panel)	21	06-Dec-17	28-Dec-17	06-Dec-17	28-Dec-17	100%	0%	-95							AB22030			
General BS Installation																			
Electrical System																			
AB54570	MEP 1st fix - LGF Sector G	30	01-Nov-17	30-Nov-17	01-Nov-17	30-Nov-17	100%	0%	-95							AB54570			
AB54580	MEP 2nd fix - LGF Sector G	45	01-Dec-17	17-Jan-18	01-Dec-17	17-Jan-18	82.22%	0%	-95							AB54580			
AB54590	MEP Final fix - LGF Sector G	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-95						AB54590				
Plumbing & Drainage																			
AB54600	P&D 1st fix - LGF Sector G	30	01-Nov-17	30-Nov-17	01-Nov-17	30-Nov-17	100%	0%	-95							AB54600			

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September	October	November	December	January																					
										24	25	26	27	28																					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08						
AB54610	P&D 2nd fix - LGF Sector G	45	01-Dec-17	17-Jan-18	01-Dec-17	17-Jan-18	82.22%	0%	-95																										
AB54620	P&D Final fix - LGF Sector G	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-95																										
FS System																																			
AB54630	FS 1st fix - LGF Sector G	30	01-Nov-17	30-Nov-17	01-Nov-17	30-Nov-17	100%	0%	-95																										
AB54640	FS 2nd fix - LGF Sector G	45	01-Dec-17	17-Jan-18	01-Dec-17	17-Jan-18	82.22%	0%	-95																										
AB54650	FS Final fix - LGF Sector G	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-95																										
HVAC System																																			
AB54660	HVAC 1st fix - LGF Sector G	30	01-Nov-17	30-Nov-17	01-Nov-17	30-Nov-17	100%	0%	-95																										
AB54670	HVAC 2nd fix - LGF Sector G	45	01-Dec-17	17-Jan-18	01-Dec-17	17-Jan-18	82.22%	0%	-95																										
AB54680	HVAC Final fix - LGF Sector G	30	18-Jan-18	18-Feb-18	18-Jan-18	18-Feb-18	0%	0%	-95																										
Plantrooms																																			
M+ Water Tank																																			
AB22190	Waterproofing works & water	12	01-Oct-17	14-Oct-17	01-Oct-17	14-Oct-17	100%	0%	-95																										
AB22200	Plastering work (inside tank)	10	15-Oct-17	24-Oct-17	15-Oct-17	24-Oct-17	100%	0%	-95																										
AB22210	Wall & floor tiling	14	25-Oct-17	08-Nov-17	25-Oct-17	08-Nov-17	100%	0%	-95																										
AB22220	Application of sealer on soffit (outside tank)	7	09-Nov-17	15-Nov-17	09-Nov-17	15-Nov-17	100%	0%	-95																										
AB22230	Cat ladder	7	16-Nov-17	22-Nov-17	16-Nov-17	22-Nov-17	100%	0%	-95																										
AB22240	Hatch cover	7	23-Nov-17	29-Nov-17	23-Nov-17	29-Nov-17	100%	0%	-95																										
RDE Stair Pressurization Room																																			
Builder's Work																																			
AB22040	Sealer on ceiling soffit & epoxy paint on wall	7	29-Dec-17	05-Jan-18	29-Dec-17	05-Jan-18	100%	0%	-95																										
BS Installation																																			
AB22050	RDE Stair Pressurization Room - MEP 2nd fix	14	06-Jan-18	19-Jan-18	06-Jan-18	19-Jan-18	28.57%	0%	-95																										
AB22060	RDE Stair Pressurization Room - MEP final fix	30	20-Jan-18	21-Feb-18	20-Jan-18	21-Feb-18	0%	0%	-95																										
Final Finishes																																			
AB22070	Final coat of paint on wall	3	22-Feb-18	24-Feb-18	22-Feb-18	24-Feb-18	0%	0%	-95																										
AB22080	Polyurethane on floor	3	25-Feb-18	27-Feb-18	25-Feb-18	27-Feb-18	0%	0%	-95																										
AB22090	Door & ironmongeries installation	3	28-Feb-18	02-Mar-18	28-Feb-18	02-Mar-18	0%	0%	-95																										
LV Switch Room																																			
Builder's Work																																			
AB22100	Construct plinth	5	06-Jan-18	10-Jan-18	06-Jan-18	10-Jan-18	80%	0%	-95																										
AB22110	Wall rendering	9	10-Dec-17	18-Dec-17	26-Aug-17 A	31-Aug-17 A	0%	100%	41																										
AB22120	Wall tiling (1.5m high)	10	01-Oct-17	12-Oct-17	01-Oct-17	12-Oct-17	0%	0%	10																										
AB22130	Floor screeding	4	13-Oct-17	16-Oct-17	13-Oct-17	16-Oct-17	0%	0%	10																										
AB22140	Sealer on ceiling soffit & application of epoxy paint on wall																																		

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December				January		
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
AB22280	ICT Riser Room - MEP final fix	14	24-Oct-17	08-Nov-17	24-Oct-17	08-Nov-17	0%	0%	30										AB22280									
Final Finishes																												
AB22290	Final coat of paint on wall	3	08-Nov-17	11-Nov-17	08-Nov-17	11-Nov-17	0%	0%	30										AB22290									
AB22300	Polyurethane on floor	3	11-Nov-17	14-Nov-17	11-Nov-17	14-Nov-17	0%	0%	30										AB22300									
ELV Room																												
Builders' Work																												
AB22320	Sealer on ceiling soffit & epoxy paint on wall	7	10-Oct-17	17-Oct-17	10-Oct-17	17-Oct-17	0%	0%	30										AB22320									
BS Installation																												
AB22330	ELV Room - MEP 2nd fix	14	17-Oct-17	01-Nov-17	17-Oct-17	01-Nov-17	0%	0%	30										AB22330									
AB22340	ELV Room - Install ELV System	30	01-Nov-17	01-Dec-17	01-Nov-17	01-Dec-17	0%	0%	30										AB22340									
Final Finishes																												
AB22350	Final coat of paint on wall	3	01-Dec-17	04-Dec-17	01-Dec-17	04-Dec-17	0%	0%	30										AB22350									
AB22360	Polyurethane on floor	3	04-Dec-17	07-Dec-17	04-Dec-17	07-Dec-17	0%	0%	30										AB22360									
MEP Room																												
Builder's Work																												
AB22380	Sealer on ceiling soffit & epoxy paint on wall	7	17-Oct-17	24-Oct-17	17-Oct-17	24-Oct-17	0%	0%	30										AB22380									
BS Installation																												
AB22390	MEP Room - MEP 2nd fix	14	24-Oct-17	08-Nov-17	24-Oct-17	08-Nov-17	0%	0%	30										AB22390									
AB22400	MEP Room - MEP final fix	30	08-Nov-17	08-Dec-17	08-Nov-17	08-Dec-17	0%	0%	30										AB22400									
Final Finishes																												
AB22410	Final coat of paint on wall	3	08-Dec-17	11-Dec-17	08-Dec-17	11-Dec-17	0%	0%	30										AB22410									
AB22420	Polyurethane on floor	3	11-Dec-17	14-Dec-17	11-Dec-17	14-Dec-17	0%	0%	30										AB22420									
M+ Podium ABWF & BS Installation																												
G/F - Zone A1 (Sector C)																												
General Builders' Work																												
AB23780	Wall Plastering	7	17-Nov-17	23-Nov-17	17-Nov-17	23-Nov-17	100%	0%	-117																			
AB23790	Drywall (MEP concealed items, close up panel)	14	24-Nov-17	07-Dec-17	24-Nov-17	07-Dec-17	100%	0%	-117																			
AB23800	Floor Screeding	14	08-Dec-17	21-Dec-17	08-Dec-17	21-Dec-17	100%	0%	-117																			
General BS Installation																												
Electrical System																												
AB54930	MEP 1st fix - GF Sector C	30	17-Nov-17	16-Dec-17	17-Nov-17	16-Dec-17	100%	0%	-117																			
AB54940	MEP 2nd fix - GF Sector C	45	17-Dec-17	02-Feb-18	17-Dec-17	02-Feb-18	95.56%	0%	-117																			
AB54950	MEP Final fix - GF Sector C	30	03-Feb-18	07-Mar-18	03-Feb-18	07-Mar-18	0%	0%	-117																			
Plumbing & Drainage																												
AB54960	P&D 1st fix - GF Sector C	30	17-Nov-17	16-Dec-17	17-Nov-17	16-Dec-17	100%	0%	-117																			
AB54970	P&D 2nd fix - GF Sector C	45	17-Dec-17	02-Feb-18	17-Dec-17	02-Feb-18	95.56%	0%	-117																			
AB54980	P&D Final fix - GF Sector C	30	03-Feb-18	07-Mar-18	03-Feb-18	07-Mar-18	0%	0%	-117																			
FS System																												
AB54990	FS 1st fix - GF Sector C	30	17-Nov-17	16-Dec-17	17-Nov-17	16-Dec-17	100%	0%	-117																			
AB55000	FS 2nd fix - GF Sector C	45	17-Dec-17	02-Feb-18	17-Dec-17	0																						

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December				January		
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Plumbing & Drainage																												
AB55800	P&D 1st fix - 1MF Sector A	30	01-Feb-18	05-Mar-18	01-Feb-18	05-Mar-18	0%	0%	-80																			
AB55810	P&D 2nd fix - 1MF Sector A	45	06-Mar-18	23-Apr-18	06-Mar-18	23-Apr-18	0%	0%	-80																			
FS System																												
AB55830	FS 1st fix - 1MF Sector A	30	01-Feb-18	05-Mar-18	01-Feb-18	05-Mar-18	0%	0%	-80																			
AB55840	FS 2nd fix - 1MF Sector A	45	06-Mar-18	23-Apr-18	06-Mar-18	23-Apr-18	0%	0%	-80																			
HVAC System																												
AB55860	HVAC 1st fix - 1MF Sector A	30	01-Feb-18	05-Mar-18	01-Feb-18	05-Mar-18	0%	0%	-80																			
AB55870	HVAC 2nd fix - 1MF Sector A	45	06-Mar-18	23-Apr-18	06-Mar-18	23-Apr-18	0%	0%	-80																			
1MF - Zone A2 (Sector C)																												
AB26400	Maintenance platform installation	75	01-Oct-17	17-Dec-17	01-Oct-17	17-Dec-17	100%	0%	-85																			
General BS Installation																												
Electrical System																												
AB55890	MEP 1st fix - 1MF Sector A	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-85																			
AB55900	MEP 2nd fix - 1MF Sector A	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-85																			
AB55910	MEP Final fix - 1MF Sector A	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	33.33%	0%	-85	AB55910																		
Plumbing & Drainage																												
AB55920	P&D 1st fix - 1MF Sector A	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-85																			
AB55930	P&D 2nd fix - 1MF Sector A	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-85																			
AB55940	P&D Final fix - 1MF Sector A	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	33.33%	0%	-85	AB55940																		
FS System																												
AB55950	FS 1st fix - 1MF Sector A	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-85																			
AB55960	FS 2nd fix - 1MF Sector A	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-85																			
AB55970	FS Final fix - 1MF Sector A	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	33.33%	0%	-85	AB55970																		
HVAC System																												
AB55980	HVAC 1st fix - 1MF Sector A	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-85																			
AB55990	HVAC 2nd fix - 1MF Sector A	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-85																			
AB56000	HVAC Final fix - 1MF Sector A	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	33.33%	0%	-85	AB56000																		
2/F - Zone A5 (Sector C)																												
General Builders' Work																												
AB27860	Wall Plastering	21	04-Jan-18	24-Jan-18	04-Jan-18	24-Jan-18	0%	0%	-89																			
AB27870	Floor Screeding	21	25-Jan-18	14-Feb-18	25-Jan-18	14-Feb-18	0%	0%	-89	AB27870																		
General BS Installation																												
Electrical System																												
AB56370	MEP 1st fix - 2F Sector C	30	04-Jan-18	02-Feb-18	04-Jan-18	02-Feb-18	0%	0%	-89																			
AB56380	MEP 2nd fix - 2F Sector C	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-89																			
AB56390	MEP Final fix - 2F Sector C	30	23-Mar-18	25-Apr-18	23-Mar-18	25-Apr-18	0%	0%	-89																			
Plumbing & Drainage																												
AB56400	P&D 1st fix - 2F Sector C	30	04-Jan-18	02-Feb-18	04-Jan-18	02-Feb-18	0%	0%	-89																			
AB56410	P&D 2nd fix - 2F Sector C	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-89																			
AB56420	P&D Final fix - 2F Sector C	30	23-Mar-18	25-Apr-18	23-Mar-18	2																						

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December			January									
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08		
AB56460	HVAC 1st fix - 2F Sector C	30	04-Jan-18	02-Feb-18	04-Jan-18	02-Feb-18	0%	0%	-89																						
AB56470	HVAC 2nd fix - 2F Sector C	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-89																						
AB56480	HVAC Final fix - 2F Sector C	30	23-Mar-18	25-Apr-18	23-Mar-18	25-Apr-18	0%	0%	-89																						
Gallery, Exhibition, Rooms, Plaza																															
First Aid Room																															
AB27940	Wall tiling	7	23-Mar-18	29-Mar-18	23-Mar-18	29-Mar-18	0%	0%	-89																						
AB27950	Skim coat, application of emulsion paint on ceiling	7	01-Apr-18	09-Apr-18	01-Apr-18	09-Apr-18	0%	0%	-89																						
Gallery 5 & 6, Tall Gallery 1 & 2, Temporary Exhibition 2a, 2b & 2c																															
AB27890	Skim coat & application of emulsion paint on wall & soffit	60	23-Mar-18	27-May-18	23-Mar-18	27-May-18	0%	0%	-89																						
2/F - Zone F (Sector D)																															
General Builders' Work																															
AB28080	Steel Post	14	25-Jan-18	07-Feb-18	25-Jan-18	07-Feb-18	0%	0%	-47																						
AB28090	Blockwall	14	08-Feb-18	24-Feb-18	08-Feb-18	24-Feb-18	0%	0%	-47																						
General BS Installation																															
Electrical System																															
AB56490	MEP 1st fix - 2F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																						
Plumbing & Drainage																															
AB56520	P&D 1st fix - 2F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																						
FS System																															
AB56550	FS 1st fix - 2F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																						
HVAC System																															
AB56580	HVAC 1st fix - 2F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																						
3/F - Zone M (Sector C) - Tower Footprint																															
General Builders' Work																															
AB28650	Blockwall	10	01-Oct-17	12-Oct-17	01-Oct-17	12-Oct-17	100%	0%	-88																						
AB28660	Wall Plastering	14	13-Oct-17	26-Oct-17	13-Oct-17	26-Oct-17	100%	0%	-88																						
AB28670	Drywall (MEP concealed items, close up panel)	14	27-Oct-17	10-Nov-17	27-Oct-17	10-Nov-17	100%	0%	-88																						
AB28680	Floor Screeding	14	11-Nov-17	24-Nov-17	11-Nov-17	24-Nov-17	100%	0%	-88																						
General BS Installation																															
Electrical System																															
AB56790	MEP 1st fix - 3F Sector C	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-88																						
AB56800	MEP 2nd fix - 3F Sector C	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-88																						
AB56810	MEP Final fix - 3F Sector C	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	43.33%	0%	-88	AB56810																					
Plumbing & Drainage																															
AB56820	P&D 1st fix - 3F Sector C	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-88																						
AB56830	P&D 2nd fix - 3F Sector C	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-88																						
AB56840	P&D Final fix - 3F Sector C	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	43.33%	0%	-88	AB56840																					
FS System																															
AB56850	FS 1st fix - 3F Sector C	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-88																						
AB56860	FS 2nd fix - 3F Sector C	45	03-Nov-17	17-Dec-17	03-Nov-17	17-Dec-17	100%	0%	-88																						
AB56870	FS Final fix - 3F Sector C	30	18-Dec-17	19-Jan-18	18-Dec-17	19-Jan-18	43.33%	0%	-88	AB56870																					
HVAC System																															
AB56880	HVAC 1st fix - 3F Sector C	30	01-Oct-17	02-Nov-17	01-Oct-17	02-Nov-17	100%	0%	-88																						
AB56890	HVAC 2nd fix - 3F Sector C	45</																													

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Warming Kitchen																												
AB28700	Oak slats framework/suspension on ceiling installation	7	18-Dec-17	24-Dec-17	18-Dec-17	24-Dec-17	100%	0%	-88																			
AB28710	MEP dropper	7	27-Dec-17	03-Jan-18	27-Dec-17	03-Jan-18	85.71%	0%	-88																			
AB28720	Oak slats installation	7	04-Jan-18	10-Jan-18	04-Jan-18	10-Jan-18	0%	0%	-88																			
AB28740	Floor tiling	7	11-Jan-18	17-Jan-18	11-Jan-18	17-Jan-18	0%	0%	-88																			
Museum Cafe 2																												
AB28770	Oak slats framework/suspension on ceiling installation	21	18-Jan-18	07-Feb-18	18-Jan-18	07-Feb-18	0%	0%	-88																			
AB28780	MEP dropper	10	08-Feb-18	20-Feb-18	08-Feb-18	20-Feb-18	0%	0%	-88																			
AB28790	Oak slats installation	14	21-Feb-18	06-Mar-18	21-Feb-18	06-Mar-18	0%	0%	-88																			
AB28800	Application of dust sealer on wall	11	07-Mar-18	17-Mar-18	07-Mar-18	17-Mar-18	0%	0%	-88																			
AB28820	Oak planks on floor installation (incl. framework)	20	18-Mar-18	10-Apr-18	18-Mar-18	10-Apr-18	0%	0%	-88																			
3/F - Zone F (Sector D) - Tower Footprint																												
General Builders' Work																												
AB29130	Blockwall	10	25-Jan-18	03-Feb-18	25-Jan-18	03-Feb-18	0%	0%	-47																			
AB29140	Wall Plastering	14	04-Feb-18	20-Feb-18	04-Feb-18	20-Feb-18	0%	0%	-47																			
General BS Installation																												
Electrical System																												
AB56670	MEP 1st fix - 3F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																			
Plumbing & Drainage																												
AB56700	P&D 1st fix - 3F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																			
FS System																												
AB56730	FS 1st fix - 3F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																			
HVAC System																												
AB56760	HVAC 1st fix - 3F Sector D	30	25-Jan-18	26-Feb-18	25-Jan-18	26-Feb-18	0%	0%	-47																			
M+ Tower ABWF & BS Installation																												
M+ Tower ABWF & BS Installation																												
General Builders' Work																												
A22780	3/F Builders' Works	50	04-Jan-18	25-Feb-18	04-Jan-18	25-Feb-18	0%	0%	-43																			
A22790	4/F Builders' Works	50	11-Jan-18	04-Mar-18	11-Jan-18	04-Mar-18	0%	0%	-43																			
A22800	5/F Builders' Works	50	18-Jan-18	11-Mar-18	18-Jan-18	11-Mar-18	0%	0%	-43																			
A22810	6/F Builders' Works	50	25-Jan-18	18-Mar-18	25-Jan-18	18-Mar-18	0%	0%	-43																			
A22820	7/F Builders' Works	50	01-Feb-18	25-Mar-18	01-Feb-18	25-Mar-18	0%	0%	-43																			
A22830	8/F Builders' Works	50	08-Feb-18	04-Apr-18	08-Feb-18	04-Apr-18	0%	0%	-43																			
BS Installation																												
A39370	3/F Building Services	135	1																									

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	
CF10120	G/F AHU Room	25	23-Nov-17	17-Dec-17	23-Nov-17	17-Dec-17	100%	0%	-96																					
CF10140	1/F AHU Room	25	23-Nov-17	17-Dec-17	23-Nov-17	17-Dec-17	100%	0%	-96																					
CF10150	1/F Gas Suppression Cylinders	25	23-Nov-17	17-Dec-17	23-Nov-17	17-Dec-17	100%	0%	-96																					
CF10160	1/F ELV/ICT Room	25	23-Nov-17	17-Dec-17	23-Nov-17	17-Dec-17	100%	0%	-96																					
CF10170	2/F AHU Room	25	09-Dec-17	05-Jan-18	09-Dec-17	05-Jan-18	100%	0%	-93																					
CF10180	2/F Gas Suppression Cylinders	25	09-Dec-17	05-Jan-18	09-Dec-17	05-Jan-18	100%	0%	-93																					
CF10190	2/F ELV/ICT Room	25	09-Dec-17	05-Jan-18	09-Dec-17	05-Jan-18	100%	0%	-93																					
CF10940	3/F AHU Room	25	22-Dec-17	18-Jan-18	22-Dec-17	18-Jan-18	60%	0%	-92																					
CF10950	3/F Gas Suppression Cylinders	25	22-Dec-17	18-Jan-18	22-Dec-17	18-Jan-18	60%	0%	-92																					
CF10960	3/F ELV/ICT Room	25	22-Dec-17	18-Jan-18	22-Dec-17	18-Jan-18	60%	0%	-92																					
CF10970	4/F AHU Room	25	09-Jan-18	02-Feb-18	09-Jan-18	02-Feb-18	13.33%	0%	-93																					
CF10980	4/F Gas Suppression Cylinders	25	09-Jan-18	02-Feb-18	09-Jan-18	02-Feb-18	13.33%	0%	-93																					
CF10990	4/F ELV/ICT Room	25	09-Jan-18	02-Feb-18	09-Jan-18	02-Feb-18	13.33%	0%	-93																					
CF11000	5/F AHU Room	25	23-Jan-18	18-Feb-18	23-Jan-18	18-Feb-18	0%	0%	-93																					
CF11010	5/F Gas Suppression Cylinders	25	23-Jan-18	18-Feb-18	23-Jan-18	18-Feb-18	0%	0%	-93																					
CF11020	5/F ELV/ICT Room	25	23-Jan-18	18-Feb-18	23-Jan-18	18-Feb-18	0%	0%	-93																					
CF11030	6/F AHU Room	25	02-Feb-18	01-Mar-18	02-Feb-18	01-Mar-18	0%	0%	-93																					
CF11040	6/F ELV/ICT Room	25	02-Feb-18	01-Mar-18	02-Feb-18	01-Mar-18	0%	0%	-93																					
CF11050	7/F AHU Room	25	12-Feb-18	11-Mar-18	12-Feb-18	11-Mar-18	0%	0%	-93																					
CF11060	7/F ELV/ICT Room	25	12-Feb-18	11-Mar-18	12-Feb-18	11-Mar-18	0%	0%	-93																					
CF11070	8/F Chiller Water Pump Room	25	18-Mar-18	15-Apr-18	18-Mar-18	15-Apr-18	0%	0%	-86																					
CF11080	8/F AHU Room	25	21-Feb-18	17-Mar-18	21-Feb-18	17-Mar-18	0%	0%	-91																					
CF11090	8/F Water Tank & Pump Room	25	21-Feb-18	17-Mar-18	21-Feb-18	17-Mar-18	0%	0%	-91																					
CF11100	8/F H.P. & A.C.C. Room	25	18-Mar-18	15-Apr-18	18-Mar-18	15-Apr-18	0%	0%	-86																					
CF11150	8/F Acoustic Slab Construction	25	21-Feb-18	17-Mar-18	21-Feb-18	17-Mar-18	0%	0%	-91																					
General Finishes																														
CF10260	Wall Plastering (6/F & 7/F Toilet Area)	60	02-Feb-18	09-Apr-18	02-Feb-18	09-Apr-18	0%	0%	-98																					
CF10270	Floor Screeding (6/F & 7/F Toilet Area)	60	20-Feb-18	24-Apr-18	20-Feb-18	24-Apr-18	0%	0%	-98																					
CF10280	Waterproofing & Protective Screeding (6/F & 7/F Toilet Area)	60	27-Feb-18	02-May-18	27-Feb-18	02-May-18	0%	0%	-98																					
CF10290	Wall Tiling (6/F & 7/F Toilet Area)	60	06-Mar-18	09-May-18	06-Mar-18	09-May-18	0%	0%	-98																					
CF10300	Floor Tiling (6/F & 7/F Toilet Area)	60	20-Mar-18	24-May-18	20-Mar-18	24-May-18	0%	0%	-98																					
CF10310	Ceiling Finishes (Lobby & Corridor)	60	27-Mar-18	31-May-18	27-Mar-18	31-May-18	0%	0%	-98																					
CF10320	Floor Finishes (BOH)	60	07-Apr-18	07-Jun-18	07-Apr-18	07-Jun-18	0%	0%	-98																					
CF10390	Metal Works/AP/Hosereels, etc. Installation	60	14-Apr-18	14-Jun-18	14-Apr-18	14-Jun-18	0%	0%	-98																					
CF10410	Ceiling Finishes (6/F & 7/F Toilet Area)	60	13-Mar-18	16-May-18	13-Mar-18	16-May-18	0%	0%	-98																					
Fitting																														

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December									
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
General																												
CF10850	H.L. Services First Fix	200	23-Nov-17	23-Jun-18	23-Nov-17	23-Jun-18	25.5%	0%	-101																			
CF10860	H.L. Services Second Fix & Wiring Works	100	16-Mar-18	30-Jun-18	16-Mar-18	30-Jun-18	0%	0%	-94																			
Plant Rooms																												
CF11240	G/F AHU Room Installation	45	18-Dec-17	03-Feb-18	18-Dec-17	03-Feb-18	46.67%	0%	-96																			
CF11260	1/F AHU Room Installation	45	18-Dec-17	03-Feb-18	18-Dec-17	03-Feb-18	46.67%	0%	-96																			
CF11270	1/F Gas Suppression Cylinders Installation	45	18-Dec-17	03-Feb-18	18-Dec-17	03-Feb-18	46.67%	0%	-96																			
CF11280	1/F ELV/ICT Room Installation	45	18-Dec-17	03-Feb-18	18-Dec-17	03-Feb-18	46.67%	0%	-96																			
CF11290	2/F AHU Room Installation	45	06-Jan-18	22-Feb-18	06-Jan-18	22-Feb-18	4.44%	0%	-93																			
CF11300	2/F Gas Suppression Cylinders Installation	45	06-Jan-18	22-Feb-18	06-Jan-18	22-Feb-18	4.44%	0%	-93																			
CF11310	2/F ELV/ICT Room Installation	45	06-Jan-18	22-Feb-18	06-Jan-18	22-Feb-18	4.44%	0%	-93																			
CF11340	3/F AHU Room Installation	45	19-Jan-18	07-Mar-18	19-Jan-18	07-Mar-18	0%	0%	-92																			
CF11350	3/F Gas Suppression Cylinders Installation	45	19-Jan-18	07-Mar-18	19-Jan-18	07-Mar-18	0%	0%	-92																			
CF11360	3/F ELV/ICT Room Installation	45	19-Jan-18	07-Mar-18	19-Jan-18	07-Mar-18	0%	0%	-92																			
CF11370	4/F AHU Room Installation	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-93																			
CF11380	4/F Gas Suppression Cylinders Installation	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-93																			
CF11390	4/F ELV/ICT Room Installation	45	03-Feb-18	22-Mar-18	03-Feb-18	22-Mar-18	0%	0%	-93																			
CF11400	5/F AHU Room Installation	45	20-Feb-18	09-Apr-18	20-Feb-18	09-Apr-18	0%	0%	-93																			
CF11410	5/F Gas Suppression Cylinders Installation	45	20-Feb-18	09-Apr-18	20-Feb-18	09-Apr-18	0%	0%	-93																			
CF11420	5/F ELV/ICT Room Installation	45	20-Feb-18	09-Apr-18	20-Feb-18	09-Apr-18	0%	0%	-93																			
CF11430	6/F AHU Room Installation	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-93																			
CF11440	6/F ELV/ICT Room Installation	45	02-Mar-18	19-Apr-18	02-Mar-18	19-Apr-18	0%	0%	-93																			
CF11450	7/F AHU Room Installation	45	12-Mar-18	29-Apr-18	12-Mar-18	29-Apr-18	0%	0%	-93																			
CF11460	7/F ELV/ICT Room Installation	45	12-Mar-18	29-Apr-18	12-Mar-18	29-Apr-18	0%	0%	-93																			
CF11480	8/F AHU Room Installation	45	18-Mar-18	06-May-18	18-Mar-18	06-May-18	0%	0%	-91																			
CF11490	8/F Water Tank & Pump Room Installation	56	18-Mar-18	17-May-18	18-Mar-18	17-May-18	0%	0%	-91																			
CF11540	AHU Move In G/F to 7/F	15	12-Mar-18	26-Mar-18	12-Mar-18	26-Mar-18	0%	0%	-93																			
RDE ABWF & BS Installation																												
Internal Finishes																												
Critical Plant Rooms Builders' Work																												
RD10140	1/F SED Plenum	30	14-Dec-17	15-Jan-18	14-Dec-17	15-Jan-18	46.67%	0%	-85																			
General Finishes																												
RD10210	Blockwall Erection 1st Fix	150	14-Dec-17	24-May-18	14-Dec-17	24-May-18	9.33%	0%	-85																			
RD10220	Blockwall Erection 2nd Fix	150	08-Jan-18	15-Jun-18	08-Jan-18	15-Jun-18	0%	0%	-85																			
RD10230	Wall Plastering (Toilet Area)	150	23-Jan-18	01-Jul-18	23-Jan-18	01-Jul-18	0%	0%	-85																			
RD10240	Floor Screeding (Toilet Area)	150	07-Feb-18	17-Jul-18	07-Feb-18	17-Jul-18	0%	0%	-85																			
RD10250	Waterproofing & Protective Screeding (Toilet Area)	1																										

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	
A56410	Apply paint on ceiling & wall	7	22-Aug-17	29-Aug-17	23-Jun-17 A	03-Oct-17	100%	95%	-63																					
Staircase																														
Builders' Work																														
A56430	Wall Plastering & screeding	12	12-May-17	25-May-17	12-May-17 A	03-Oct-17	100%	95%	-109																					
BS Installation																														
A56450	SPS - MEP 2nd Fix for Staircases	14	15-Jul-17	31-Jul-17	26-Jun-17 A	03-Oct-17	100%	99%	-88																					
Final Finishes																														
A56480	Install Door & ironmongerries	3	19-Aug-17	22-Aug-17	11-Aug-17 A	03-Oct-17	100%	75%	-72																					
SPS - External Envelope																														
A32220	SPS - Install GRC Architectural Louvre & Bracket	7	29-Jul-17	05-Aug-17	21-Jul-17 A	04-Oct-17	100%	75%	-96																					
A32230	SPS - Erect steel frame for perforated corrugated cladding	12	16-Sep-17	29-Sep-17	11-Sep-17 A	14-Sep-17 A	100%	100%	-74																					
A56560	SPS - Install perforated corrugated cladding	12	25-Sep-17	10-Oct-17	18-Sep-17 A	10-Oct-17	100%	50%	-58																					
A56570	SPS - Final Fix & Facade Final Cleaning	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-49																					
SPS - Access Pavement																														
A56590	SPS - Backfilling	2	03-Oct-17	04-Oct-17	03-Oct-17	04-Oct-17	100%	0%	-76																					
A56600	SPS - Construct SPS access pavement	6	06-Oct-17	12-Oct-17	06-Oct-17	12-Oct-17	100%	0%	-72																					
SPS - Testing & Commissioning																														
A32240	SPS - Testing and Commissioning	12	22-Sep-17	04-Oct-17	11-Sep-17 A	04-Oct-17	100%	80%	-57																					
SPS - Statutory Inspection																														
FS Water																														
A32300	SPS - Inspection and Approval by WSD	2	26-Aug-17	29-Aug-17	14-Aug-17 A	04-Oct-17	100%	90%	-71																					
A32305	SPS - Water Sample (2 nos.) & Report Submission	3	05-Oct-17	07-Oct-17	05-Oct-17	07-Oct-17	100%	0%	-78																					
A32310	SPS - Issuance of WW046 (Part 5) by WSD (Water Certificate)	6	08-Oct-17	13-Oct-17	08-Oct-17	13-Oct-17	100%	0%	-70																					
A32320	SPS - Water Meter Connection (FS) by WSD	4	14-Oct-17	17-Oct-17	14-Oct-17	17-Oct-17	100%	0%	-70																					
Potable Water / Flushing Water																														
A32375	SPS - Water Sample (2 nos.) & Report Submission	6	01-Oct-17	06-Oct-17	01-Oct-17	06-Oct-17	100%	0%	-78																					
A32380	SPS - Issuance of WW046 (Part 5) by WSD (Water Certificate)	12	08-Sep-17	20-Sep-17	30-Aug-17 A	11-Sep-17 A	100%	100%	-38																					
A32390	SPS - Water Meter Connection (Plumbing) by WSD	4	04-Oct-17	07-Oct-17	04-Oct-17	07-Oct-17	100%	0%	-61																					
FSD (Fire Services)																														
A32392	SPS - Submission & Approval of Final Amendment Building Plan to BD	31	24-Aug-17	23-Sep-17	24-Aug-17 A	23-Sep-17 A	100%	100%	-97																					
A32405	SPS - FS direct link / FTNS available	7	19-Sep-17	26-Sep-17	02-Sep-17 A	24-Sep-17 A																								

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December					January	
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08		
A35180	SPS and ICP - Non-Deferred Access for Backfilling Works	0		23-Oct-17		23-Oct-17	100%	0%	-80																						
A35190	Diversion of Traffic and Hoarding modification	14	24-Oct-17	08-Nov-17	24-Oct-17	08-Nov-17	100%	0%	-96																						
Gridline 5a - 9a /Da-Ma																															
A35200	Construct Vent Ducts & Staircases	13	23-Jun-17	08-Jul-17	22-Jun-17 A	04-Oct-17	100%	98%	-98																						
A35210	ICP - Completion of ICP Structure for Backfilling Works	0		04-Oct-17		04-Oct-17	100%	0%	-83																						
A35220	Diversion of Traffic and Hoarding modification	15	05-Oct-17	21-Oct-17	05-Oct-17	21-Oct-17	100%	0%	-101																						
Dismantle TC 5 & Infill openings																															
A35230	Dismantle Tower Crane TC5	2	15-Jul-17	18-Jul-17	10-Jul-17 A	03-Oct-17	100%	50%	-102																						
A35240	Concrete In-Fill from Roof to B1/slab Openings	3	04-Oct-17	07-Oct-17	04-Oct-17	07-Oct-17	100%	0%	-96																						
ICP - ABWF Works																															
B2 Slab Construction (Phase 1)																															
Portion A12 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35260	Portion A12 - Granular Fill on Top of Pilecaps & Bottom slab	3	02-Sep-17	05-Sep-17	28-Aug-17 A	04-Oct-17	100%	50%	-111																						
A35270	Portion A12 - Construct B2 Slab	6	06-Oct-17	12-Oct-17	06-Oct-17	12-Oct-17	100%	0%	-111																						
Portion A13 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35290	Portion A13 - Granular Fill on Top of Pilecaps & Bottom slab	3	02-Sep-17	05-Sep-17	29-Aug-17 A	06-Oct-17	100%	30%	-112																						
A35300	Portion A13 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-112																						
Portion B14 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35320	Portion B14 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-112																						
A35330	Portion B14 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-112																						
Portion B15 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35350	Portion B15 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-102																						
A35360	Portion B15 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-102																						
B2 Slab Construction (Phase 2)																															
Portion A14 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35380	Portion A14 - Granular Fill on Top of Pilecaps & Bottom slab	3	02-Sep-17	05-Sep-17	25-Aug-17 A	04-Oct-17	100%	60%	-111																						
A35390	Portion A14 - Construct B2 Slab	6	11-Sep-17	18-Sep-17	04-Sep-17 A	09-Oct-17	100%	30%	-108																						
Portion A15 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35410	Portion A15 - Granular Fill on Top of Pilecaps & Bottom slab	3	12-Aug-17	16-Aug-17	07-Aug-17 A	03-Oct-17	100%	75%	-110																						
A35420	Portion A15 - Construct B2 Slab	6	11-Sep-17	18-Sep-17	04-Sep-17 A	06-Oct-17	100%	50%	-106																						
Portion B16 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35440	Portion B16 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-107																						
A35450	Portion B16 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-107																						
Portion B17 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35470	Portion B17 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-107																						
A35480	Portion B17 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-107																						
B2 Slab Construction (Phase 3)																															
Portion A16 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35510	Portion A16 - Construct B2 Slab	6	26-Aug-17	02-Sep-17	22-Aug-17 A	06-Oct-17	100%	60%	-82																						
Portion B18 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35520	Portion B18 - Preparation Works	1	23-Jun-17	23-Jun-17	07-Aug-17 A	30-Sep-17 A	100%	100%	-84																						

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December						
										24					25					26					27					28	
Portion B19 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35590	Portion B19 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-89								02	09													
A35600	Portion B19 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-89																						
Portion A18 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35630	Portion A18 - Construct B2 Slab	6	26-Aug-17	02-Sep-17	21-Aug-17 A	05-Sep-17 A	100%	100%	-47																						
Portion B20 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35640	Portion B20 - Preparation Works	1	02-Sep-17	02-Sep-17	28-Aug-17 A	03-Oct-17	100%	70%	-91																						
A35650	Portion B20 - Granular Fill on Top of Pilecaps & Bottom slab	3	04-Oct-17	07-Oct-17	04-Oct-17	07-Oct-17	100%	0%	-91																						
A35660	Portion B20 - Construct B2 Slab	6	09-Oct-17	14-Oct-17	09-Oct-17	14-Oct-17	100%	0%	-91																						
Portion B21 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35670	Portion B21 - Preparation Works	1	15-Sep-17	15-Sep-17	29-Aug-17 A	30-Sep-17 A	100%	100%	-69																						
A35680	Portion B21 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-69																						
A35690	Portion B21 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-69																						
Portion B22 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35710	Portion B22 - Granular Fill on Top of Pilecaps & Bottom slab	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-87																						
A35720	Portion B22 - Construct B2 Slab	6	07-Oct-17	13-Oct-17	07-Oct-17	13-Oct-17	100%	0%	-87																						
Portion A19 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35750	Portion A19 - Construct B2 Slab	6	28-Aug-17	04-Sep-17	21-Aug-17 A	06-Sep-17 A	100%	100%	-28																						
Portion B23 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35760	Portion B23 - Preparation Works	1	09-Sep-17	09-Sep-17	05-Sep-17 A	03-Oct-17	100%	70%	-91																						
A35770	Portion B23 - Granular Fill on Top of Pilecaps & Bottom slab	3	04-Oct-17	07-Oct-17	04-Oct-17	07-Oct-17	100%	0%	-91																						
A35780	Portion B23 - Construct B2 Slab	6	09-Oct-17	14-Oct-17	09-Oct-17	14-Oct-17	100%	0%	-91																						
Portion A20 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35810	Portion A20 - Construct B2 Slab	6	07-Sep-17	13-Sep-17	21-Aug-17 A	05-Sep-17 A	100%	100%	-52																						
Portion A21 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35840	Portion A21 - Construct B2 Slab	6	31-Aug-17	07-Sep-17	21-Aug-17 A	03-Oct-17	100%	90%	-70																						
Portion B24 - B2 Slab (200 thk) @ Lvl -0.05mPD																															
A35850	Portion B24 - Preparation Works	1	02-Sep-17	02-Sep-17	29-Aug-17 A	30-Sep-17 A	100%	100%	-90																						
A35860	Portion B24 - Granular Fill on Top of Pilecaps & Bottom slab	3	04-Oct-17	07-Oct-17	29-Sep-17 A	03-Oct-17	100%	50%	-88																						
A35870	Portion B24 - Construct B2 Slab	6	04-Oct-17	11-Oct-17	04-Oct-17	11-Oct-17	100%	0%	-88																						
B2/F to B1/F ABWF and Fitout Works																															
Portion A (Phase 1)																															
A35880	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	40	25-Oct-17	11-Dec-17	25-Oct-17	11-Dec-17	100%	0%	-111																						
A35890	Fitout Works - Internal Ceiling & Wall Painting	40	08-Dec-17	26-Jan-18	08-Dec-17	26-Jan-18	100%	0%	-111																						
A35900	Fitout Works - Install bituminous road base for driveway	25	27-Jan-18	28-Feb-18	27-Jan-18	28-Feb-18	64%	0%	-111																						
A35910	Fitout Works - Install doors, grated drains, MOE steps & Signage	20	01-Mar-18	23-Mar-18	01-Mar-18	23-Mar-18	0%																								

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September			October			November			December			January					
										24	25	26	27	28	01	02	09	16	23	30	06	13	20	27	04	11	18
A36000	Fitout Works - Install bituminous road base for driveway	30	01-Mar-18	09-Apr-18	01-Mar-18	09-Apr-18	0%	0%	-111																		
A36010	Fitout Works - Install doors, grated drains, MOE steps & Signage	20	10-Apr-18	03-May-18	10-Apr-18	03-May-18	0%	0%	-111																		
A36020	Remaining Fitout Works (B1/F) - After Removal of TC5 @ GL 4a-5a/Ea	16	04-May-18	23-May-18	04-May-18	23-May-18	0%	0%	-111																		
Portion B (Phase 1)										September			October			November			December			January					
A36030	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	40	03-Oct-17	20-Nov-17	03-Oct-17	20-Nov-17	100%	0%	-113																		
A36040	Fitout Works - Internal Ceiling & Wall Painting	40	17-Nov-17	05-Jan-18	17-Nov-17	05-Jan-18	100%	0%	-113																		
A36050	Fitout Works - Install bituminous road base for driveway	20	06-Jan-18	29-Jan-18	06-Jan-18	29-Jan-18	100%	0%	-113																		
A36060	Fitout Works - Install doors, grated drains, MOE steps & Signage	20	30-Jan-18	24-Feb-18	30-Jan-18	24-Feb-18	80%	0%	-113																		
Portion B (Phase 2)										September			October			November			December			January					
A36070	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	50	02-Nov-17	02-Jan-18	02-Nov-17	02-Jan-18	100%	0%	-107																		
A36080	Fitout Works - Internal Ceiling & Wall Painting	50	15-Dec-17	14-Feb-18	15-Dec-17	14-Feb-18	92%	0%	-107																		
A36090	Fitout Works - Install bituminous road base for driveway	30	15-Feb-18	24-Mar-18	15-Feb-18	24-Mar-18	0%	0%	-107																		
A36100	Fitout Works - Install doors, grated drains, MOE steps & Signage	30	26-Mar-18	04-May-18	26-Mar-18	04-May-18	0%	0%	-107																		
Portion B (Phase 3)										September			October			November			December			January					
A36110	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	50	02-Nov-17	02-Jan-18	02-Nov-17	02-Jan-18	100%	0%	-74																		
A36120	Fitout Works - Internal Ceiling & Wall Painting	50	06-Dec-17	05-Feb-18	06-Dec-17	05-Feb-18	42%	0%	-74																		
A36130	Fitout Works - Install bituminous road base for driveway	30	06-Feb-18	15-Mar-18	06-Feb-18	15-Mar-18	0%	0%	-74																		
A36140	Fitout Works - Install doors, grated drains, MOE steps & Signage	30	16-Mar-18	24-Apr-18	16-Mar-18	24-Apr-18	0%	0%	-74																		
B1/F to Roof ABWF and Fitout Works										September			October			November			December			January					
Portion A										September			October			November			December			January					
Phase 1 & 2										September			October			November			December			January					
A36150	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	60	03-Oct-17	13-Dec-17	03-Oct-17	13-Dec-17	100%	0%	-92																		
A36160	Fitout Works - Internal Ceiling & Wall Painting	60	15-Nov-17	26-Jan-18	15-Nov-17	26-Jan-18	95%	0%	-92																		
A36170	Fitout Works - Install bituminous road base for driveway	30	27-Jan-18	06-Mar-18	27-Jan-18	06-Mar-18	0%	0%	-92																		
A36180	Fitout Works - Install doors, grated drains, MOE steps & Signage	30	27-Jan-18	06-Mar-18	27-Jan-18	06-Mar-18	0%	0%	-92																		
Phase 3										September			October			November			December			January					
A36190	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	60	03-Oct-17	13-Dec-17	03-Oct-17	13-Dec-17	100%	0%	-92																		
A36200	Fitout Works - Internal Ceiling & Wall Painting	60	15-Nov-17	26-Jan-18	15-Nov-17	26-Jan-18	95%	0%	-92																		
A36210	Fitout Works - Install bituminous road base for driveway	30	27-Jan-18	06-Mar-18	27-Jan-18	06-Mar-18	0%	0%	-92																		
A36220	Fitout Works - Install doors, grated drains, MOE steps & Signage	30	27-Jan-18	06-Mar-18	27-Jan-18	06-Mar-18	0%	0%	-92																		
Portion B										September			October			November			December			January					
Phase 1 & 2										September			October			November			December			January					
A36230	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	75	03-Oct-17	03-Jan-18	03-Oct-17	03-Jan-18	78.67%	0%	-59																		
A36240	Fitout Works - Internal Ceiling & Wall Painting	75	06-Nov-17	03-Feb-18	06-Nov-17	03-Feb-18	42.67%	0%	-59																		
A36250	Fitout Works - Install bituminous road base for driveway	40	05-Feb-18	26-Mar-18	05-Feb-18	26-Mar-18	0%	0%	-59																		
A36260	Fitout Works - Install doors, grated drains, MOE steps & Signage	40	05-Feb-18	26-Mar-18	05-Feb-18	26-Mar-18	0%	0%	-59																		
Phase 3										September			October			November			December			January					
A36270	ABWF Works - Internal Ceiling & Wall Plastering (Wet Trades)	60	04-Jan-18	17-Mar-18	04-Jan-18	17-Mar-18	0%	0%	-59																		
A36280	Fitout Works - Internal Ceiling & Wall Painting	60	05-Feb-18	23-Apr-18	05-Feb-18	23-Apr-18	0%	0%	-59																		
ICP - Building Services										September			October			November			December			January					
B2/F level										September																	

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September 24	October 25	November 26	December 27	January 28
A36330	ICP (Electrical) - B2/F Building Services (1st Fix)	40	09-Dec-17	27-Jan-18	01-Sep-17 A	26-Oct-17	64%	50%	-6	28	04	11	18	25
A36340	ICP (Electrical) - B2/F Building Services (2nd / Final Fix) & Testing	60	27-Oct-17	09-Jan-18	27-Oct-17	09-Jan-18	0%	0%	-6	02	09	16	23	30
Mechanical														
Zone 1														
A36350	ICP (MVAC) - B2/F Building Services (1st Fix)	40	01-Sep-17	19-Oct-17	01-Sep-17 A	26-Oct-17	0%	50%	27	06	13	20	27	04
A36360	ICP (MVAC) - B2/F Building Services (2nd / Final Fix) & Testing	60	27-Oct-17	09-Jan-18	27-Oct-17	09-Jan-18	0%	0%	27	06	13	20	27	04
Zone 2														
A36370	ICP (MVAC) - B2/F Building Services (1st Fix)	40	19-Dec-17	06-Feb-18	01-Sep-17 A	26-Oct-17	100%	87%	-21	06	13	20	27	04
A36380	ICP (MVAC) - B2/F Building Services (2nd / Final Fix) & Testing	60	27-Oct-17	09-Jan-18	27-Oct-17	09-Jan-18	1.67%	0%	-21	06	13	20	27	04
Plumbing & Drainage														
Zone 1														
A36390	ICP (P&D) - B2/F Building Services (1st Fix)	40	27-Feb-18	18-Apr-18	27-Feb-18	18-Apr-18	0%	0%	-111	06	13	20	27	04
A36400	ICP (P&D) - B2/F Building Services (2nd / Final Fix) & Testing	60	19-Apr-18	30-Jun-18	19-Apr-18	30-Jun-18	0%	0%	-111	06	13	20	27	04
Zone 2														
A36410	ICP (P&D) - B2/F Building Services (1st Fix)	40	08-Dec-17	26-Jan-18	08-Dec-17	26-Jan-18	100%	0%	-111	06	13	20	27	04
A36420	ICP (P&D) - B2/F Building Services (2nd / Final Fix) & Testing	60	15-Feb-18	04-May-18	15-Feb-18	04-May-18	0%	0%	-111	06	13	20	27	04
Fire Services (Wet)														
Zone 1														
A36430	ICP (FS-Wet) - B2/F Building Services (1st Fix)	40	27-Feb-18	18-Apr-18	27-Feb-18	18-Apr-18	0%	0%	-111	06	13	20	27	04
A36440	ICP (FS-Wet) - B2/F Building Services (2nd / Final Fix) & Testing	60	19-Apr-18	30-Jun-18	19-Apr-18	30-Jun-18	0%	0%	-111	06	13	20	27	04
Zone 2														
A36450	ICP (FS-Wet) - B2/F Building Services (1st Fix)	40	08-Dec-17	26-Jan-18	08-Dec-17	26-Jan-18	100%	0%	-111	06	13	20	27	04
A36460	ICP (FS-Wet) - B2/F Building Services (2nd / Final Fix) & Testing	60	15-Feb-18	04-May-18	15-Feb-18	04-May-18	0%	0%	-111	06	13	20	27	04
Fire Services (Dry)														
Zone 1														
A36470	ICP (FS-Dry) - B2/F Building Services (1st Fix)	40	27-Feb-18	18-Apr-18	27-Feb-18	18-Apr-18	0%	0%	-111	06	13	20	27	04
A36480	ICP (FS-Dry) - B2/F Building Services (2nd / Final Fix) & Testing	60	19-Apr-18	30-Jun-18	19-Apr-18	30-Jun-18	0%	0%	-111	06	13	20	27	04
Zone 2														
A36490	ICP (FS-Dry) - B2/F Building Services (1st Fix)	40	08-Dec-17	26-Jan-18	08-Dec-17	26-Jan-18	100%	0%	-111	06	13	20	27	04
A36500	ICP (FS-Dry) - B2/F Building Services (2nd / Final Fix) & Testing	60	15-Feb-18	04-May-18	15-Feb-18	04-May-18	0%	0%	-111	06	13	20	27	04
Lift Installation														
A36510	Handover of Completed Lift Shaft (Lift 1 & Lift 2)	0	06-Jan-18		06-Jan-18*		100%	0%	-98	06	13	20	27	04
A36520	ICP (Lift 1 & 2) - Rail & Door Installation	10	06-Jan-18	17-Jan-18	06-Jan-18	17-Jan-18	100%	0%	-98	06	13	20	27	04
A36530	ICP (Lift 1 & 2) - Machine Room Installation	12	18-Jan-18	31-Jan-18	18-Jan-18	31-Jan-18	91.67%	0%	-98	06	13	20	27	04
A36540	ICP (Lift 1 & 2) - Pit Installation	6	01-Feb-18	07-Feb-18	01-Feb-18	07-Feb-18	0%	0%	-98	06	13	20	27	04
A36550	ICP (Lift 1 & 2) - Stable Power Installation	0		07-Feb-18		07-Feb-18	0%	0%	-98	06	13	20	27	04
A36560	ICP (Lift 1 & 2) - Car Installation	14	08-Feb-18	27-Feb-18	08-Feb-18	27-Feb-18	0%	0%	-98	06	13	20	27	04
A36570	ICP (Lift 1 & 2) - Wiring	12	28-Feb-18	13-Mar-18	28-Feb-18	13-Mar-18	0%	0%	-98	06	13	20	27	04
A36580	ICP (Lift 1 & 2) - Lift Testing & Commissioning	14	14-Mar-18	29-Mar-18	14-Mar-18	29-Mar-18	0%	0%	-98	06	13	20	27	04
A36590	ICP (Lift 1 & 2) - Lift Fitout & Ready for EMSD Inspection	30	03-Apr-18	09-May-18	03-Apr-18	09-May-18	0%	0%	-98	06	13	20	27	04
ELV Extra Low Voltage (Site Wide)														
Zone 1														
A36600	ICP (ELV) - B2/F Building Services (1st Fix)	40	16-Oct-17	01-Dec-17	16-Oct-17*	01-Dec-17	0%	0%	-3	06	13	20	27	04
A36610	ICP (ELV) - B2/F Building Services (2nd / Final Fix) & Testing	60	02-Dec-17	13-Feb-18	02-Dec-17	13-Feb-18	0%	0%	-3	06	13	20	27	04
Zone 2														
A36620	ICP (ELV) - B2/F Building Services (1st Fix)	40	27-Nov-17	15-Jan-18	27-Nov-17	15-Jan-18	0%	0%	-10	06	13	20	27	04

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September								October							November						December					January		
										24	25	26	27	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08					
A36630	ICP (ELV) - B2/F Building Services (2nd / Final Fix) & Testing	50	02-Jan-18	03-Mar-18	02-Jan-18	03-Mar-18	0%	0%	-10																							A36630						
B1/F Level																																						
CLP Works Leading to Energization / Power-On																																						
Electrical (B1/F) - Transformer Room (B128)																																						
A36650	CLP Transformer - Builders Works & BS Installation	16	10-Apr-17	02-May-17	10-Apr-17 A	10-Oct-17	100%	60%	-112																													
A36660	Inspection for Handover to CLP	5	11-Oct-17	16-Oct-17	11-Oct-17	16-Oct-17	100%	0%	-112																													
A36670	CLP Transformer Installation Works	90	17-Oct-17	14-Jan-18	17-Oct-17	14-Jan-18	100%	0%	-135																													
A36680	CLP Power-On & Energization	0		15-Jan-18		15-Jan-18	100%	0%	-92																													
Electrical (B1/F) - LV Switch room (B126)																																						
A36690	LV Switch room - Builders Works & BS Installation	30	03-Oct-17	08-Nov-17	03-Oct-17	08-Nov-17	100%	0%	-83																													
A36700	LV Switch room - Install LV Switch Board & Testing	45	09-Nov-17	03-Jan-18	09-Nov-17	03-Jan-18	100%	0%	-83																													
External Electrical Power and Lead-In Cable Ducts																																						
A36710	Construct (4x) 2.5x2.2x1.2m Electrical Draw Pits	36	03-Oct-17	15-Nov-17	03-Oct-17	15-Nov-17	100%	0%	-104																													
A36720	Install 12x150dia @ 2-Layers GI Ducts	36	17-Oct-17	28-Nov-17	17-Oct-17	28-Nov-17	100%	0%	-104																													
A36730	MV Cable Laying & Testing	30	11-Nov-17	15-Dec-17	11-Nov-17	15-Dec-17	100%	0%	-104																													
A36740	MV Cable Termination and Test (by CLP)	12	16-Dec-17	02-Jan-18	16-Dec-17	02-Jan-18	100%	0%	-104																													
A36750	Pre-Energization Checked & Testing	6	03-Jan-18	09-Jan-18	03-Jan-18	09-Jan-18	100%	0%	-104																													
A36760	MV Syst Energized / Syst Commissioning Acceptance Test	6	10-Jan-18	16-Jan-18	10-Jan-18	16-Jan-18	100%	0%	-104																													
A36770	Power Energization Complete and Ready for Power-On	0		16-Jan-18		16-Jan-18	100%	0%	-104																													
Electrical (B1/F) - General Works																																						
A36780	ICP (Electrical) - B1/F Building Services (1st Fix)	60	27-Jan-18	14-Apr-18	27-Jan-18	14-Apr-18	0%	0%	-92																													
A36790	ICP (Electrical) - B1/F Building Services (2nd / Final Fix) & Testing	75	19-Mar-18	21-Jun-18	19-Mar-18	21-Jun-18	0%	0%	-92																													
A36800	ICP (Electrical) - Install Generator Set & Testing	45	19-Mar-18	15-May-18	19-Mar-18	15-May-18	0%	0%	-92																													
Mechanical General																																						
A36810	ICP (MVAC) - B1/F Building Services (1st Fix)	60	20-Dec-17	06-Mar-18	20-Dec-17	06-Mar-18	45%	0%	-92																													
A36820	ICP (MVAC) - B1/F Building Services (2nd / Final Fix) & Testing	75	08-Feb-18	15-May-18	08-Feb-18	15-May-18	0%	0%	-92																													
FS Plant Rooms (FS Pump Room and Security Room)																																						
A36830	FS Rooms - Builders Works & BS Installation	45	03-Oct-17	25-Nov-17	03-Oct-17	25-Nov-17	100%	0%	-83																													
A36840	FS Rooms - Install Pumps, Equipment & Cabinet	45	02-Nov-17	23-Dec-17	02-Nov-17	23-Dec-17	100%	0%	-83																													
A36850	FS Rooms - Install Fresh / Potable Pipeworks & Testing	30	07-Dec-17	13-Jan-18	07-Dec-17	13-Jan-18	96.67%	0%	-83																													
A36860	Install Water Meter Cabinet	12	15-Jan-18	27-Jan-18	15-Jan-18	27-Jan-18	0%	0%	-83																													
Fire Services (Wet)																																						
Zone 1																																						
A36870	ICP (FS-Wet) - B1/F Building Services (1st Fix)	40	15-Nov-17	03-Jan-18	15-Nov-17	03-Jan-18	100%	0%	-92																													
A36880	ICP (FS-Wet) - B1/F Building Services (2nd / Final Fix) & Testing	50	30-Dec-17	02-Mar-18	30-Dec-17	02-Mar-18	40%	0%	-92																													
Zone 2																																						

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
Zone 1																												
A36950	ICP (ELV) - B1/F Building Services (1st Fix)	45	03-Apr-18	28-May-18	03-Apr-18	28-May-18	0%	0%	-92																			
A36960	ICP (ELV) - B1/F Building Services (2nd / Final Fix) & Testing	50	25-Apr-18	25-Jun-18	25-Apr-18	25-Jun-18	0%	0%	-92																			
ICP - External Envelope																												
A36990	ICP - Install GRC Architectural Louvre & Bracket	40	06-Oct-17	22-Nov-17	06-Oct-17	22-Nov-17	100%	0%	-95																			
A37000	ICP - GRC Facade Final Cleaning	15	23-Nov-17	09-Dec-17	23-Nov-17	09-Dec-17	100%	0%	-95																			
A37010	ICP - Install Facade Louvre Screen	40	06-Oct-17	22-Nov-17	06-Oct-17	22-Nov-17	100%	0%	-95																			
A37020	ICP - Facade Louvre Screen Final Cleaning	15	23-Nov-17	09-Dec-17	23-Nov-17	09-Dec-17	100%	0%	-95																			
ICP - Statutory Inspection																												
WSD (FS Water)																												
A37070	ICP - Submit & Approval of Form WW046 (Part 4) to WSD (Final Report)	14	07-Dec-17	20-Dec-17	07-Dec-17	20-Dec-17	100%	0%	-85																			
A37080	ICP - Inspection and Approval by WSD for (FS Pipeworks)	7	21-Dec-17	27-Dec-17	21-Dec-17	27-Dec-17	57.14%	0%	-85																			
A37085	ICP - Water Sample (2 nos.) & Report Submission	10	28-Dec-17	06-Jan-18	28-Dec-17	06-Jan-18	0%	0%	-85																			
A37090	ICP - Issuance of WW046 (Part 5) by WSD (Water Certificate)	14	07-Jan-18	20-Jan-18	07-Jan-18	20-Jan-18	0%	0%	-85																			
A37100	ICP - Water Meter Connection (FS) by WSD	14	28-Jan-18	10-Feb-18	28-Jan-18	10-Feb-18	0%	0%	-92																			
Potable Water / Flushing Water																												
A37110	ICP - Submit & Approval of Form WW046 (Part 4) to WSD (Final Report)	14	07-Dec-17	20-Dec-17	07-Dec-17	20-Dec-17	100%	0%	-85																			
A37120	ICP - Inspection and Approval by WSD	7	28-Dec-17	03-Jan-18	28-Dec-17	03-Jan-18	0%	0%	-85																			
A37125	ICP - Water Sample (2 nos.) & Report Submission	10	04-Jan-18	13-Jan-18	04-Jan-18	13-Jan-18	0%	0%	-85																			
A37130	ICP - Issuance of WW046 (Part 5) by WSD (Water Certificate)	14	14-Jan-18	27-Jan-18	14-Jan-18	27-Jan-18	0%	0%	-85																			
A37140	ICP - Water Meter Connection (Plumbing) by WSD	14	28-Jan-18	10-Feb-18	28-Jan-18	10-Feb-18	0%	0%	-85																			
EPD Submission and Approval																												
A37150	ICP - EPD Submission and Approval for (Genset Installation)	30	07-Dec-17	13-Jan-18	07-Dec-17	13-Jan-18	96.67%	0%	-83																			
External Works																												
SPS																												
SPS - G/F External Utilities & Roadworks																												
Grd Lvl - Watermain / FS Pipes Connection (Outside SPS) to PIW																												
A37240	Watermain Final Connection & Backfill	25	08-May-17	06-Jun-17	08-May-17 A	31-Aug-17 A	100%	100%	-66																			
Works Above SPS and ICP at Portion A																												
A37320	Portion A - Waterproofing & Backfilling	60	28-Sep-17	09-Dec-17	10-Aug-17 A	07-Nov-17	35%	50%	10																			
A37330	Portion A - Above Slab Utilities & Fire Hydrant	60	03-Oct-17	13-Dec-17	03-Oct-17	13-Dec-17	0%	0%	9																			
A37340	Portion A - Final backfilling	60	09-Nov-17	20-Jan-18	09-Nov-17	20-Jan-18	0%	0%	9																			
A37350	Portion A - EVA Carriageway / Roadworks	60	14-Dec-17	28-Feb-18	14-Dec-17	28-Feb-18	0%	0%	9																			
ICP																												

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
A25130	M70 - Arts Pavilion Area on M+ side of M+ / Park Interface (t.b.a.)	0	01-Oct-17		01-Oct-17*		100%	0%	-122																			
Vacation Date																												
A25240	M04 - Underground Fuel Tank Area beside M+ Entrance Portal (25Jan1)	0		02-Jan-18		02-Jan-18	0%	0%	-48																		◆ M04 -	
A25250	M05 - SPS Frontage At-grade Road (25Jan19)	0		20-Dec-17		20-Dec-17	100%	0%	-86																		◆ M05 - SPS Fronta	
A25320	M12 - Lyric Interface North (2nd H/O to Lyric) (31Mar17)	0		22-Jan-18		22-Jan-18	0%	0%	-83																			
A25330	M13 - Lyric Interface Over AEL (H/O to Lyric) (31Aug17)	0		31-Jan-18		31-Jan-18	0%	0%	-83																			
A25345	M14 - Lyric Interface South, GL 6-12 (2nd H/O to Lyric)	0		01-Feb-18		01-Feb-18	0%	0%	-83																			
A25350	M14a - Lyric Interface South, GL 12-14 (31Jan16)	0		10-Nov-17		16-Feb-16 A	0%	100%	634																			
A25370	M15 - M+ / Lyric Staircase (2nd H/O to Lyric) (25Jan19)	0		01-Feb-18		01-Feb-18	0%	0%	-83																			
A25390	M16 - M+ Lyric Interface South (2nd H/O to Lyric) (31May17)	0		01-Feb-18		01-Feb-18	0%	0%	-92																			
A25420	M19 - M+ Waterfront Promenade Part within STT Area (H/O to Waterl	0		27-Jan-18		27-Jan-18	0%	0%	-88																			
A25430	M20 - Site Outside Parcel Boundary East of Promenade (H/O to Waterl	0		26-Mar-18		26-Mar-18	0%	0%	-119																			
A25480	M26 - M+ Entrance interface with At-grade Road (Practical Completion)	0		30-Oct-17		30-Oct-17	100%	0%	-109																			
A25490	M27 - New Temporary Access Road outside Park Boundary (Practical C	0		09-Dec-17		09-Dec-17	100%	0%	-81																			
A25500	M28 - New Temporary Access Road Part in Hotel/OACF Site (Practical I	0		09-Dec-17		09-Dec-17	100%	0%	-81																			
A25550	M38 - Lyric Waterfront (Part of MTR Area A1) (H/O to Lyric) (31May20)	0		01-Feb-18		01-Feb-18	0%	0%	-92																			
A25560	M39 - Lyric Waterfront / through ESS Compound (H/O to Lyric) (31May	0		01-Feb-18		01-Feb-18	0%	0%	-92																			
A25570	M40 - Lyric Waterfront Part for Access Around ESS Compound (H/O to	0		04-Apr-18		04-Apr-18	0%	0%	-120																			
A25580	M41 - Lyric Waterfront at Barging Point (Part of MTR Area 3) (Prior to	0		01-Feb-18		01-Feb-18	0%	0%	-92																			
A25590	M42 - Lyric Waterfront east of barging point (Prior to Lyric Main Ctr) (3	0		01-Feb-18		01-Feb-18	0%	0%	-92																			
A25600	M43 - At-grade Road Footpath at ICP / SPS Entrance Portal (Practical C	0		09-Dec-17		09-Dec-17	100%	0%	-81																			
A25610	M44 - At-grade Road Footpath at ICP / SPS Frontage (H/O to PIW) (08J	0		01-Feb-18		01-Feb-18	0%	0%	-115																			
A25620	M45 - At-grade Road Footpath along M+ Basement (H/O to PIW) (8Jul	0		17-Mar-18		17-Mar-18	0%	0%	-138																			
A25630	M46 - M+ Waterfront Promenade Part incl' Existing MTR Pump Cells (H	0		04-Apr-18		04-Apr-18	0%	0%	-120																			
A25640	M47 - M+ Promenade Terrace (Practical Completion)	0		22-Nov-17		22-Nov-17	0%	0%	-28																			◆ M47 - M+ Promenade Terrace (Practical Con
A25650	M48 - M+ Waterfront Promenade Part incl' KGO Pump Cells (H/O to W	0		22-Nov-17		22-Nov-17	0%	0%	-28																			◆ M48 - M+ Waterfront Promenade Part incl'
A25660	M49 - M+ Waterfront Part for Access Around ESS (H/O to Waterfront F	0		22-Nov-17		22-Nov-17	0%	0%	-28																		◆ M49 - M+ Waterfront Part for Access Around	
A25670	M50 - Internal Areas of SPS (for Park Opening) (25Jun2017)	0		20-Oct-17		20-Oct-17	100%	0%	-35																		◆ M50 - Internal Areas of SPS (for Park Opening) (25Jun2017),	
A25680	M51 - Entrance to SPS within the ICP (H/O to Park on 25 Jun 17) Retair	0		09-Dec-17		09-Dec-17	100%	0%	-81																		◆ M51 - Entrance to SPS within	
A25730	M57 - Area Around South side of ICP (Practical Completion)	0		20-Nov-17		20-Nov-17	100%	0%	-56																		◆ M57 - Area Around South side of ICP (Practica	
A25760	M60 - ICP Level B1 Roof Top (Practical Completion)	0		08-Nov-17		08-Nov-17	100%	0%	-112																		◆ M60 - ICP Level B1 Roof Top (Practical Completion),	
A25890	M76 - Interfacing Park Landscape Area between M+ Southern EVA & Pi	0		20-Nov-17		20-Nov-17	100%	0%	-56																		◆ M76 - Interfacing Park Landscape Area betwe	
A25900	M77 - Interfacing Park Landscape Area South of M+ Southern EVA (25J	0		20-Nov-17		20-Nov-17	100%	0%	-56																		◆ M77 - Interfacing Park Landscape Area South	
Interface Schedule (Appendix D1 - 16 December 2015)																												
Lyric Theatre Complex and Extended Basement (Lyric)																												
Along Interface North of AEL																												
A25970	Vacate M12 permanently (31																											

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Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December						
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01
A26110	Remove all hoardings within Portion M13	6	25-Jan-18	31-Jan-18	25-Jan-18	31-Jan-18	0%	0%	-68																			
A26120	Permanently vacate Portion M13 (31 Aug 2017)	0		31-Jan-18		31-Jan-18	0%	0%	-68																			
PIW Phase 1																												
Interfacing with PIW At-Grade Road Construction																												
A26140	Remove temp. works @ At-Grade Road & Footway for Park Opening (3	0		30-Sep-17		30-Sep-17*	100%	0%	0																			
A26150	Complete all Excavation & Reinstatement Works @ At-grade Road & F	0		20-Dec-17		20-Dec-17*	0%	0%	-43																			
M+ North West Boundary Interface with Construction At-Grade Road by PIW																												
A26160	Remove the hoarding along footway & vacate footway	0		30-Sep-17		30-Sep-17*	100%	0%	-72																			
M+ Drain Connection to PIW Drainage MH WHC6_1f																												
A26200	Complete drainage works for WHC6_1f	0		06-Nov-17		06-Nov-17	100%	0%	-110																			
Towngas Interface PIW																												
DN150 incoming gas main at Entrance Portal (CIV-DWG-0403)																												
A26220	Excavate Trench & Install Shoring for Gas Main @ Footway (To be coor	6	03-Oct-17	10-Oct-17	03-Oct-17	10-Oct-17	100%	0%	-113																			
A26230	Allow Towngas to install gas main (By Towngas)	6	11-Oct-17	17-Oct-17	11-Oct-17	17-Oct-17	100%	0%	-113																			
A26240	Backfill Trench to Ground Levels	3	18-Oct-17	20-Oct-17	18-Oct-17	20-Oct-17	100%	0%	-113																			
DN150 incoming gas main for RDE (CIV-DWG-0404)																												
A26250	Excavate Trench & Install Shoring for Gas Main @ Footway (To be coor	6	14-Dec-17	20-Dec-17	14-Dec-17	20-Dec-17	100%	0%	-113																			
A26260	Allow Towngas to install gas main (By Towngas)	6	21-Dec-17	29-Dec-17	21-Dec-17	29-Dec-17	100%	0%	-113																			
Towngas Meter Application for M+																												
A26290	Submit Application for Installation of Towngas Meter	0	27-Feb-18		27-Feb-18		0%	0%	-96																			
Seawater Cooling Intake Pipes Interface PIW																												
Civil Works Interface with PIW Watermain South of M+																												
DN450 Fresh Water & DN450 Salt Water District Wide main South of M+ (Item51 - App D1)																												
A26340	Allow Access to PIW Contractor to Construct DN450 Fresh Watermain ,	0	10-Oct-17		10-Oct-17		100%	0%	-60																			
A26350	M+ Commencement of EVA & Promenade Terrace	0		08-Mar-18		08-Mar-18	0%	0%	-60																			
Park																												
Drainage Interface w/ Park PIW (SW of M+)																												
A26420	Allow access for Park Contractor to construct manhole SE2.7 & Park dr	0	20-Jan-18		20-Jan-18		0%	0%	-88																			
Sewage Interface w/ Park PIW (SW of M+ & ICP SPS)																												
A26430	Complete Laying Sewer Pipe DN300 from F2.1E to SM19	0		30-Oct-17		30-Oct-17	100%	0%	-87																			
A26440	Complete Laying Sewer Pipe DN450 to Park Contractor MH SM13	0		20-Dec-17		20-Dec-17	100%	0%	-113																			
A26450	Complete drain test & Handover to DSD (3 months prior to KD03 of Par																											

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Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December																												
										24		25		26		27		28		01		02		03																										
Construction																																																		
Seawater Outfall Pipe																																																		
Construction at CH0+66 to CH0+108																																																		
Trench Excavation & Pipe works (CH0+66 to CH0+102)																																																		
A26670	Trench Excavation@+3.0mPD to Final excavation Lvl	3	22-Jul-17	25-Jul-17	03-Jul-17 A	30-Sep-17 A	100%	100%	-98	28		04		11		18		25		02		09		16		23																								
A26680	Pipe Laying & Associated Works	6	18-Jul-17	25-Jul-17	12-Jul-17 A	30-Sep-17 A	100%	100%	-92	03-Oct-17		10-Oct-17		17-Oct-17		24-Oct-17		31-Oct-17		07-Nov-17		14-Nov-17		21-Nov-17		28-Nov-17																								
A26700	Pressure Test	6	03-Oct-17	10-Oct-17	03-Oct-17	10-Oct-17	100%	0%	-86	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26710	Back Filling to Struts & Wailing Lvl	6	11-Oct-17	17-Oct-17	11-Oct-17	17-Oct-17	100%	0%	-86	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26720	Dismantle Struts & Wailing	3	18-Oct-17	20-Oct-17	18-Oct-17	20-Oct-17	100%	0%	-86	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26730	Back Filling to GL	6	21-Oct-17	27-Oct-17	21-Oct-17	27-Oct-17	100%	0%	-86	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26740	Extract Sheetpiles	3	30-Oct-17	01-Nov-17	30-Oct-17	01-Nov-17	100%	0%	-86	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
Construct Cofferdam & Pipe works for Lead In (CH0+102 to CH0+108)																																																		
A26750	Drive in Sheetpiles (Cofferdam) @ 18m depth	9	03-Oct-17	13-Oct-17	03-Oct-17	13-Oct-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26760	Curtain Grouting (where required)	12	14-Oct-17	27-Oct-17	14-Oct-17	27-Oct-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26770	Dewatering	1	30-Oct-17	30-Oct-17	30-Oct-17	30-Oct-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26780	ELS Excavation (Cofferdam)@GL +5.0mPD to +3.0mPD	3	31-Oct-17	02-Nov-17	31-Oct-17	02-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26790	Install 1st Layer Strut & Wailing (Cofferdam) @ +3.5mPD	6	03-Nov-17	09-Nov-17	03-Nov-17	09-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26800	ELS Excavation (Cofferdam)@+3.0mPD to +0.275mPD	3	10-Nov-17	13-Nov-17	10-Nov-17	13-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26810	Install 2nd Layer Strut & Wailing (Cofferdam) @ +0.775mPD	6	14-Nov-17	20-Nov-17	14-Nov-17	20-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26820	ELS Excavation (Cofferdam)@+0.275mPD to -2.45mPD	3	21-Nov-17	23-Nov-17	21-Nov-17	23-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26830	Install 3rd Layer Strut & Wailing (Cofferdam) @ -1.95mPD	6	24-Nov-17	30-Nov-17	24-Nov-17	30-Nov-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26840	ELS Excavation Final (Cofferdam)@ -2.45mPD to -3.70mPD	3	01-Dec-17	04-Dec-17	01-Dec-17	04-Dec-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26850	Pipe Laying & Associated Works	4	05-Dec-17	08-Dec-17	05-Dec-17	08-Dec-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17		29-Nov-17		06-Dec-17		13-Dec-17		20-Dec-17		27-Dec-17																								
A26860	Construct 2 Nos of Bend Block	6	09-Dec-17	15-Dec-17	09-Dec-17	15-Dec-17	100%	0%	-110	01-Nov-17		08-Nov-17		15-Nov-17		22-Nov-17																																		

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										24					25					26					27					28			
A58740	Install Sump Pumps	28	10-Oct-17	07-Nov-17	10-Oct-17	07-Nov-17	100%	0%	-94	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08				
A58750	Delivery of Pipes and Fittings	2	09-Nov-17	10-Nov-17	09-Nov-17*	10-Nov-17	0%	0%	0																								
A58760	Install Pipes and Fittings	10	06-Apr-18	15-Apr-18	06-Apr-18	15-Apr-18	0%	0%	-111																								
A58770	Delivery of Sump Pump Panels	2	20-Nov-17	21-Nov-17	20-Nov-17*	21-Nov-17	0%	0%	0																								
A58780	Install Sump Pump Panels	11	16-Apr-18	26-Apr-18	16-Apr-18	26-Apr-18	0%	0%	-111																								
A58790	Hydraulic Test (Cleansing Pipes)	6	27-Apr-18	03-May-18	27-Apr-18	03-May-18	0%	0%	-111																								
Electrical Works																																	
A58820	Delivery of Power Cable	2	28-Dec-17	29-Dec-17	28-Dec-17*	29-Dec-17	0%	0%	0																								
A58830	Delivery of Cable Tray	2	28-Dec-17	29-Dec-17	28-Dec-17*	29-Dec-17	0%	0%	0																								
Demolition of CSO Office																																	
A27760	CSO Office relocation	0		07-Oct-17		07-Oct-17*	100%	0%	-45																								
A27770	Demolish Existing CSO Office	36	09-Oct-17	20-Nov-17	09-Oct-17	20-Nov-17	100%	0%	-45																								
Sewerage																																	
Sewerage Interface with PIW & F2 Contractor																																	
Sewerage at Austin Road West (Portion L08)																																	
A27790	PIW Implement TTMS & Allow Access to Manhole F1.2 to HCC	0	03-Oct-17		03-Oct-17*		100%	0%	-113																								
A27800	Excavate Trial Trench for UU within Austin Road West Area	12	03-Oct-17	17-Oct-17	03-Oct-17	17-Oct-17	100%	0%	-113																								
A27810	Demolished Existing Planter	10	18-Oct-17	30-Oct-17	18-Oct-17	30-Oct-17	100%	0%	-113																								
A27820	Excavate & Install Lateral Support	10	31-Oct-17	10-Nov-17	31-Oct-17	10-Nov-17	100%	0%	-113																								
A27830	Construct M+ Terminal Manhole F1.3A	6	11-Nov-17	17-Nov-17	11-Nov-17	17-Nov-17	100%	0%	-113																								
A27840	Lay down DN375 F1.3B to F1.3A to F1.2	3	18-Nov-17	21-Nov-17	18-Nov-17	21-Nov-17	100%	0%	-113																								
A27850	Pressure Test	3	22-Nov-17	24-Nov-17	22-Nov-17	24-Nov-17	100%	0%	-113																								
A27860	Back fill & Reinstate pavement / Reinstate Planter	9	25-Nov-17	05-Dec-17	25-Nov-17	05-Dec-17	100%	0%	-113																								
A27870	HCC connect DN375 to F1.2	1	06-Dec-17	06-Dec-17	06-Dec-17	06-Dec-17	100%	0%	-113																								
Sewerage at Portion M01, Gridline A/ 3-14																																	
A27940	HCC grant access to Park Contractor for SM100 construction	0	07-Nov-17		07-Nov-17		100%	0%	-87																								
MH F2.1B to MH F2.1A																																	
A27980	Construct Manhole F2.1A	6	22-Aug-17	28-Aug-17	17-Aug-17 A	23-Sep-17 A	100%	100%	-99																								
A28000	Lay & Connect Sewerage Pipe incoming from M+ to MH F2.1A	2	25-Sep-17	26-Sep-17	22-Sep-17 A	23-Sep-17 A	100%	100%	-99																								
A28010	Pressure Test	3	01-Sep-17	05-Sep-17	23-Aug-17 A	23-Sep-17 A	100%	100%	-96																								
A28020	Backfill to ground level	4	05-Sep-17	09-Sep-17	24-Aug-17 A	03-Oct-17	100%	75%	-99																								
MH F2.1C to MH F2.1B																																	
A28070	Backfill to ground level	5	29-Sep-17	06-Oct-17	17-Aug-17 A	06-Oct-17	100%	50%	-82																								
MH F2.1D to MH F2.1C																																	
A28080	Completion of G/F Slab, Wall & Column at Portion E	0		30-Sep-17		30-Sep-17	100%	0%	-113																								
A28090	Manhole & Trench Excavation for Sewerage Pipe between MH F2.1D to	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-87																								
A28100	Construct Manhole F2.1D	10	07-Oct-17	18																													

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

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										24					25					26					27					01		08																					
A28190	Backfill to ground level	3	03-Nov-17	06-Nov-17	03-Nov-17	06-Nov-17	100%	0%	-87	28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25	01	08																								
Sewerage at Portion M05 & M27																																																					
A28240	Complete B1 Column, Wall & Slab at ICP Portion A21	0		23-Sep-17		14-Sep-17 A	100%	100%	-98	Completed B1 Column, Wall & Slab at ICP Portion A21,																																											
MH SM21A to Interface MH SM13																																																					
Submissions																																																					
A28440	Prepare & Submit ELS Design to RSS for Approval	6	03-Oct-17	10-Oct-17	03-Oct-17	10-Oct-17	100%	0%	-113																																												
A28450	RSS Review & Approve ELS Design	12	11-Oct-17	24-Oct-17	11-Oct-17	24-Oct-17	100%	0%	-113																																												
Construction																																																					
A28460	Drive In Sheetpiles	12	25-Oct-17	08-Nov-17	25-Oct-17	08-Nov-17	100%	0%	-113																																												
A28470	Trench Excavation & Lateral Support from SM21A to SM13	18	09-Nov-17	29-Nov-17	09-Nov-17	29-Nov-17	100%	0%	-113																																												
A28480	Lay Sewerage Pipe DN450 between SM21A to SM13 (Approx. 52m)	9	30-Nov-17	09-Dec-17	30-Nov-17	09-Dec-17	100%	0%	-113																																												
A28490	Connect Pipe to Interfacing MH SM13 / Box out Pipe on MH13 Wall	1	11-Dec-17	11-Dec-17	11-Dec-17	11-Dec-17	100%	0%	-113																																												
A28500	Pressure Test	3	12-Dec-17	14-Dec-17	12-Dec-17	14-Dec-17	100%	0%	-113																																												
A28510	Backfill to formation level	5	15-Dec-17	20-Dec-17	15-Dec-17	20-Dec-17	100%	0%	-113																																												
Storm Drainage																																																					
Storm Drain DN750 along Gridline A/3-11 (MH S2.4 to S2.6)																																																					
A28520	Excavate to formation level	3	27-Sep-17	29-Sep-17	21-Sep-17 A	23-Sep-17 A	100%	100%	-89																																												
A28530	Construct Manhole S2.4 & S2.6	12	25-Sep-17	10-Oct-17	23-Sep-17 A	09-Oct-17	100%	50%	-88																																												
A28540	Lay DN700 pipe from Manholes S2.4 to S2.6 (Approx. 78m)	14	10-Oct-17	25-Oct-17	10-Oct-17	25-Oct-17	100%	0%	-88																																												
A28550	Pressure Test	3	26-Oct-17	30-Oct-17	26-Oct-17	30-Oct-17	100%	0%	-88																																												
A28560	Backfill to existing ground level	5	31-Oct-17	04-Nov-17	31-Oct-17	04-Nov-17	100%	0%	-88																																												
Storm Drain DN1050 along Gridline A/11-14 (MH S2.6 to S2.6A to S2.7 to S2.8)																																																					
A28570	Excavate to formation level & install shoring	6	26-Oct-17	02-Nov-17	26-Oct-17	02-Nov-17	100%	0%	-88																																												
A28580	Construct Manhole S2.6a, S2.7 & S2.8	12	03-Nov-17	16-Nov-17	03-Nov-17	16-Nov-17	100%	0%	-88																																												
A28590	Lay DN1050 pipe from Manholes S2.6 to S2.6a to S2.7 to S2.8 (Approx. 78m)	7	17-Nov-17	24-Nov-17	17-Nov-17	24-Nov-17	100%	0%	-88																																												
A28600	Pressure Test	3	25-Nov-17	28-Nov-17	25-Nov-17	28-Nov-17	100%	0%	-88																																												
A28610	Backfill to existing ground level	5	29-Nov-17	0																																																	

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September					October					November					December								
										24					25					26					27					01		08	
A30020	Backfill to adjacent ground level	2	07-Mar-18	08-Mar-18	07-Mar-18	08-Mar-18	0%	0%	-60																						■		
A30030	Connection of Watermain (IS Appendix D1, #37, 31 October 2017)	0		08-Mar-18		08-Mar-18*	0%	0%	-60																					◆			
SPS External - Grd Lvl - Watermain (Outside SPS) to PIW																																	
A30110	Lab Test	3	03-Oct-17	06-Oct-17	03-Oct-17	06-Oct-17	100%	0%	-67																								
A30120	Watermain Final Connection	1	07-Oct-17	07-Oct-17	07-Oct-17	07-Oct-17	100%	0%	-66																								
ICP External - Grd Lvl - External Watermain Connection to PIW																																	
A30140	Complete ICP Structure	0	06-Oct-17		06-Oct-17			100%	0%	-98																							
A30150	Pipeworks Excavation at Main Road From ICP Site to PIW Main	12	06-Oct-17	19-Oct-17	06-Oct-17	19-Oct-17	100%	0%	-67																								
A30160	Install Pipeworks (FW, CW & FS Water Main) (Approx.18.5m)	18	20-Oct-17	10-Nov-17	20-Oct-17	10-Nov-17	100%	0%	-67																								
A30170	Pressure Test	3	11-Nov-17	14-Nov-17	11-Nov-17	14-Nov-17	100%	0%	-67																								
A30180	Swabbing Test	1	15-Nov-17	15-Nov-17	15-Nov-17	15-Nov-17	100%	0%	-67																								
A30190	Lab Test	12	16-Nov-17	29-Nov-17	16-Nov-17	29-Nov-17	100%	0%	-67	■																							
A30200	Watermain Final Connection	3	30-Nov-17	02-Dec-17	30-Nov-17	02-Dec-17	100%	0%	-67																								
A30220	Backfill to Ground Level	6	04-Dec-17	09-Dec-17	04-Dec-17	09-Dec-17	100%	0%	-67																								
Power																																	
Power Cable 11kV at Footpath adjacent to Entrance Portal (Interface with PIW)																																	
A30260	Excavate trench in footway for the 11kV direct buried cables	15	03-Oct-17	20-Oct-17	03-Oct-17*	20-Oct-17	100%	0%	-113																								
A30270	Lay Lead-in Cable (by CLP) & Inspection	30	21-Oct-17	19-Nov-17	21-Oct-17	19-Nov-17	100%	0%	-135																								
A30280	Backfilling footway to adjacent ground level	3	20-Nov-17	22-Nov-17	20-Nov-17	22-Nov-17	100%	0%	-112																								
Power Cable 11kV at Gridline A / 1- 3																																	
A30290	Complete Riser Room Structure at Adjacent to Transformer Room A	0	06-Oct-17		06-Oct-17			100%	0%	-107																							
A30300	Construct 2600mm x 1500mm cable trench & Install Cable Ducts	5	06-Oct-17	11-Oct-17	06-Oct-17	11-Oct-17	100%	0%	-107																								
A30310	Lay Lead-in Cable (by CLP) & connect to district-wide system	30	12-Oct-17	10-Nov-17	12-Oct-17	10-Nov-17	100%	0%	-128																								
A30320	Backfilling	3	11-Nov-17	14-Nov-17	11-Nov-17	14-Nov-17	100%	0%	-107																								
Power Cable 11kV at Gridline A / 3-14																																	
Construction at Drawpit E1 to Drawpit E2																																	
A30330	Construct Drawpits E1 & E2	8	15-Nov-17	23-Nov-17	15-Nov-17	23-Nov-17	100%	0%	-96																								
A30340	Construct Cable Tunnel from Drawpits E1 to E2 & Install Cable Ducts (A)	19	24-Nov-17	15-Dec-17	24-Nov-17	15-Dec-17	100%	0%	-96																								
Construction at Drawpit E2 to E3 to E4																																	
A30350	Construct Drawpit E3 & E4	8	16-Dec-17	27-Dec-17	16-Dec-17	27-Dec-17	100%	0%	-96	■																							
A30360	Construct Cable Tunnel from Drawpits E2 to E4 & Install Cable Ducts (A)	8	28-Dec-17	06-Jan-18	28-Dec-17	06-Jan-18	100%	0%	-96																								
Construction at Drawpit E4 to E5																																	
A30370	Construct Drawpit E5	4	08-Jan-18	11-Jan-18	08-Jan-18	11-Jan-18	100%	0%	-96																								
A30380	Construct Cable Trench & Install Cable Ducts (Approx 6m)	2	12-Jan-18	13-Jan-18	12-Jan-18	13-Jan-18	100%	0%	-96																								
Inspection & Testing																																	
A30390	Test & Inspection	3	15-Jan-18	17-Jan-18	15-Jan-18	17-Jan-18	100%	0%	-96																								
Power Cable 11kV at Gridline A-C / 14																																	
A30400	Construct Cable Trench & Install Cable Ducts (Approx 43m)	8	03-Oct-17	12-Oct-17	03-Oct-17*	12-Oct-17	100%	0%	-113																								
A30410	Tests & inspection	1	13-Oct-17	13-Oct-17	13-Oct-17	13-Oct-17	100%	0%	-113																								
Power Cable 11kv at Gridline C-M / 14																																	
A30420	Construct Drawpits E6 & E7	8	18-Jan-18	26-Jan-18	18-Jan-18	26-Jan-1																											

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Activity ID	Activity Name	CMWP Dur.	CMWP - R0.D5 Start	CMWP - R0.D5 Finish	Actual / Forecast Start	Actual / Forecast Finish	Planned B/L % Complete	Actual % Complete	Finish Variance (+/-d)	September				October				November				December					
										28	04	11	18	25	02	09	16	23	30	06	13	20	27	04	11	18	25
A30470	Lay power lead-in (by CLP) & Inspection	60	01-Mar-18	29-Apr-18	01-Mar-18	29-Apr-18	0%	0%	-119																		
LV Power from DCS to M+ Seawater Pump Cells																											
A30480	Excavate trench & Install Shoring from DCS to M+ Seawater Pump Cells	6	14-Feb-18	23-Feb-18	14-Feb-18	23-Feb-18	0%	0%	-96																		
A30490	Construct Cable Trench & Lay 4Nos of DN150 & 5Nos of DN100 Cable C	12	24-Feb-18	09-Mar-18	24-Feb-18	09-Mar-18	0%	0%	-96																		
A30500	Cable Pulling from DCS to Seawater Pump Cells	6	17-Mar-18	23-Mar-18	17-Mar-18	23-Mar-18	0%	0%	-96																		
A30510	Construct 6 Nos of Drawpit	18	24-Feb-18	16-Mar-18	24-Feb-18	16-Mar-18	0%	0%	-96																		
A30520	Backfill to Existing Ground Level	4	24-Mar-18	28-Mar-18	24-Mar-18	28-Mar-18	0%	0%	-96																		
ICP External Power Cable Trench For CLP Lead In																											
A30530	Construct 2 Nos of Drawpit at the ICP Entrance	8	03-Oct-17	12-Oct-17	03-Oct-17	12-Oct-17	100%	0%	-65																		
A30540	Install 10x200 Dia. GI Duct In 2 Layers & 1x100Dia Duct with Earthing C	10	13-Oct-17	24-Oct-17	13-Oct-17	24-Oct-17	100%	0%	-65																		
A30545	Lay power Lead-in for ICP & Inspection (by CLP)	45	25-Oct-17	08-Dec-17	25-Oct-17	08-Dec-17	100%	0%	-78																		
A30550	Backfill to Ground Level	3	09-Dec-17	12-Dec-17	09-Dec-17	12-Dec-17	100%	0%	-64																		
Gas																											
Gas Main at Portion M01																											
Gas Main RDE connection along Gridline E' - I' / I'																											
A30700	Trial Trench for Underground Utilities	10	19-Oct-17	31-Oct-17	19-Oct-17	31-Oct-17	100%	0%	-113																		
A30710	Install support for existing Underground Utilities	6	01-Nov-17	07-Nov-17	01-Nov-17	07-Nov-17	100%	0%	-113																		
A30720	Excavate Trench for Main Gas 100mm and install shoring	8	08-Nov-17	16-Nov-17	08-Nov-17	16-Nov-17	100%	0%	-113																		
A30730	Lay down Main Gas 100mm (by Towngas Specialist Contractor)	14	17-Nov-17	02-Dec-17	17-Nov-17	02-Dec-17	100%	0%	-113																		
A30740	Backfill Trench to Ground Level	4	04-Dec-17	07-Dec-17	04-Dec-17	07-Dec-17	100%	0%	-113																		
A30750	Testing and Inspection	5	08-Dec-17	13-Dec-17	08-Dec-17	13-Dec-17	100%	0%	-113																		
Gas Main M+ along Gridline 2-9/A																											
A30760	Excavate Trench for Main Gas and install shoring	12	16-Dec-17	02-Jan-18	16-Dec-17	02-Jan-18	100%	0%	-96																		
A30770	Construct and Lay down 350x350mm concrete pipe bench	12	23-Dec-17	09-Jan-18	23-Dec-17	09-Jan-18	100%	0%	-96																		
A30780	Lay down and install DN100 gas main (by Towngas Specialist Contractor)	28	10-Jan-18	10-Feb-18	10-Jan-18	10-Feb-18	57.14%	0%	-96																		
A30790	Backfill trench at M+ to adjacent level	6	12-Feb-18	21-Feb-18	12-Feb-18	21-Feb-18	0%	0%	-96																		
A30800	Testing and Inspection	4	22-Feb-18	26-Feb-18	22-Feb-18	26-Feb-18	0%	0%	-96																		
Telecom/ICT/FTNS																											
Telecom @ Gridline C-M/14																											
A30810	Completion for Construction of Power Cable Trench/Tunnel	0			09-Feb-18		09-Feb-18	0%	0%	-96																	
A30820	Lay 28Nos of DN100 Ducting @ A-C/14 (Approx. 100m)	5	10-Feb-18	15-Feb-18	10-Feb-18	15-Feb-18	0%	0%	-96																		
A30830	Construct 5# 28 DN100 FTNS drawpit @ gridline C-M/14	18	20-Feb-18	12-Mar-18	20-Feb-18	12-Mar-18	0%	0%	-96																		
A30840	Notify Telecom and request installation of cables	0			12-Mar-18		12-Mar-18	0%	0%	-96																	
Telecom @ Gridline A-C/14																											
A30850	Completion for Construction of Power Cable Trench/Tunnel	0			12-Oct-17		12-Oct-17	100%	0%	-113					</td												

Three Months Rolling Programme (3MRP) - Mth 24 - 30 September

Lyric Theatre Complex

SUMMARY PROGRAMME PROGRESS AS OF 29-SEP-2017

Page 1 of 2



SUMMARY PROGRAMME PROGRESS AS OF 29-SEP-2017

Page 2 of 2



Activity ID	Activity Name	Dur. (Days)	Planned Start	Planned Finish	Current/ Actual Start	Current/ Actual Finish	Physical % Complete	Finish Variance	Float (Days)	2017										2018											
										Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21				
ELS for DCS Intake Cofferdam and DCS / Box Culvert Outfall Cofferdam																															
KEY DAY																															
Supplementary Agreement / Contract Administrator's Instruction																															
DCS.0010	Issuance of CAI 025 - Design of ELS for DCS Intake Cofferdam	0	14-Mar-17			14-Mar-17 A		100%	0		◆																				
DCS.0020	Forming of Supplementary Agreement	0	13-Jul-17			30-Sep-17*		0%	-68	-70	◆																				
DCS.0080	Completion of Cofferdam A Including Submission of Pumping Test Report	0		06-Oct-18		25-Oct-18*		0%	-19	-19																					◆
DCS.0090	Completion of Cofferdam B Including Submission of Pumping Test Report	0		08-Jul-18		18-May-18*		0%	51	51																					
Access Date																															
DCS.0130	M+ Contractor (Hsin Chong) Vacate DCS Eastern Portion	0		09-Apr-17		09-Apr-17 A		100%	0		◆																				
DCS.0140	M+ Contractor (Hsin Chong) Vacate DCS Western Portion	0		05-May-17		05-May-17 A		100%	0		◆																				
DCS.0150	Access to Portion M14B and M14C	0	09-Jun-17		03-Jun-17 A		100%	5		◆																					
DCS.0180	Vacate Area Within Lyric Main Cofferdam and Handover to L1 Contractor	0		28-Feb-18		13-Mar-18*		0%	-13	-13																					◆
DCS.0190	Vacate and Handover Working Area within M+ Boundary	0		10-Feb-18		03-Mar-18*		0%	-15	-15																					
APPROVAL / PERMIT																															
DCS.0270	Obtaining Tree Felling Permit from PMC for Tree Removal in DCS Construction Area	0		13-Jul-17		11-Jul-17 A		100%	2		◆																				
DCS.0290	Obtaining No Objection from PMC for Use of Water Barrier as Hoarding	0		13-Jul-17		12-Jul-17 A		100%	1		◆																				
SUMMARY OF MAJOR WORKS																															
DCS.0610	Cofferdam A First Design Submission and Approval; Obtaining BD Consent for Commencement	93	11-May-17	11-Aug-17	11-May-17 A	21-Aug-17 A	100%	-9																							
DCS.0612	Withdrawal of BA8 (Initial Monitoring Reading Missing), Re-submission to Obtain BD Consent	0			24-Aug-17 A	19-Sep-17 A	100%																								
DCS.0620	Pre-grouting Works for Cofferdam A	40	12-Aug-17	27-Sep-17	04-Sep-17 A	30-Oct-17	59%	-25	-17																						
DCS.0640	Installation of Cofferdam A Stage 1 CPP and Grout Curtain; Side Walls	80	23-Sep-17	30-Dec-17	13-Oct-17	17-Jan-18	0%	-14	-17																						
DCS.0650	Installation of Cofferdam A Stage 2 CPP and Grout Curtain; Western Portion of ESS	63	06-Dec-17	23-Feb-18	23-Dec-17	13-Mar-18	0%	-15	-17																						
DCS.0660	Installation of Cofferdam A Stage 3 CPP and Grout Curtain; Eastern Portion of ESS	126	20-Feb-18	25-Jul-18	10-Mar-18	11-Aug-18	0%	-15	-17																						
DCS.0680	Submission of BA14 for Completion of Cofferdam A CPP and BD Acknowledgement	54	26-Jul-18	17-Sep-18	12-Aug-18	03-Oct-18	0%	-16	-19																						
DCS.0690	Pumping Test at Cofferdam A and Submission of Report to BD	19	18-Sep-18	06-Oct-18	05-Oct-18	25-Oct-18	0%	-19	-19																						
DCS.0710	Allow M+ Contractor for Construction of 600D Seawater Outfall Pipe within 2m Zone of Cofferdam A	39	02-Jan-18	15-Feb-18	18-Jan-18	07-Mar-18	0%	-14	-15																						
DCS.0810	Cofferdam B First Design Submission and Approval; Obtaining BD Consent for Commencement (Rejected)	93	08-Jul-17	08-Oct-17	10-Jul-17 A	26-Jul-17 A	100%	75																							
DCS.0814	BD Confirmation of Not Approval by BD; Obtaining ICE Certification and Approval by PMC	0			26-Jul-17 A	01-Sep-17 A	100%																								
DCS.0820	Pre-grouting Works for Cofferdam B	32	09-Oct-17	15-Nov-17	25-Aug-17 A	22-Sep-17 A	100%	44																							
DCS.0840	Installation of Cofferdam B Stage 1 CPP and Grout Curtain (Side Walls)	37	16-Nov-17	30-Dec-17	22-Sep-17 A	11-Dec-17	2%	15	40																						
DCS.0850	Installation of Temporary Decking over Outfall Pipes for Stage 2 Clutch Pipe Pile	10	20-Feb-18	02-Mar-18	31-Jan-18	10-Feb-18	0%	14	40																						
DCS.0860	Installation of Cofferdam B Stage 2 CPP and Grout Curtain (End Wall)	42	03-Mar-18	25-Apr-18	27-Sep-17 A	06-Mar-18	6%	39	40																						
DCS.0880	Submission of BA14 for Completion of Cofferdam B CPP and BD Acknowledgement	55	26-Apr-18	19-Jun-18	06-Mar-18	29-Apr-18	0%	51	51																						
DCS.0890	Pumping Test at Cofferdam B and Submission of Report to BD	19	20-Jun-18	08-Jul-18	30-Apr-18	18-May-18	0%	51	51																						
DCS.0920	Allow M+ Contractor for Construction of 600D Seawater Outfall Pipe within 2m Zone of Cofferdam B	39	02-Jan-18	15-Feb-18	13-Dec-17	30-Jan-18	0%	14	40																						
DCS.0930	Allow L1 Contractor to Access to Portion M4 1C for Diversion of 11 kV CLP Cables	39	02-Jan-18	15-Feb-18	13-Dec-17																										

Primary Baseline
 Actual Work
 Remaining Work
 Critical Remaining
 Milestone

**WEST KOWLOON CULTURAL DISTRICT AUTHORITY
FOUNDATION WORKS FOR LYRIC THEATRE COMPLEX
AND THE EXTENDED BASEMENT IN ZONE 3B**
PROGRESS PROGRAMME FOR ELS FOR DCS INTAKE AND OUTFALL COFFERDAMS
(Planned Dates as of Programme Rev. '0' 1st Draft Dated 08-Jul-2017)



Date	Revision	Checked	Approved
Jul-17	Submission for SA	R.L. / D.L.	A.W. / K.K.
Sep-17	Update	R.L. / D.L.	K.K.

Activity ID	Activity Name	Durn. (Days)	Planned Start	Planned Finish	Current/ Actual Start	Current/ Actual Finish	Physical % Complete	Finish Variance	Float (Days)	2017												2018													
										Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21															
DCS.1260	Design Review of Cofferdam B by PMC and Design Revision	32	31-May-17	07-Jul-17	31-May-17 A	10-Jul-17 A	100%	-1																											
DCS.1290	Design Submission for Cofferdam B to BD by PMC	4	08-Jul-17	12-Jul-17	10-Jul-17 A	10-Jul-17 A	100%	3																											
DCS.1320	Obtaining BD Approval for Cofferdam B First (1st) Design Submission (Rejected)	60	13-Jul-17	10-Sep-17	11-Jul-17 A	26-Jul-17 A	100%	47																											
DCS.1322	BD Confirmation of Cofferdam B Design to be Approved by Others	0			26-Jul-17 A	26-Jul-17 A	100%																												
DCS.1323	Obtain Cofferdam B ICE Certification and Submission to PMC	0			28-Jul-17 A	17-Aug-17 A	100%																												
DCS.1325	Cofferdam B Approval and Endorsement by PMC	0			18-Aug-17 A	01-Sep-17 A	100%																												
DCS.1330	Submission of BA8 and Obtaining BD Consent of Cofferdam B (PMC Notification of Not Required by BD)	28	11-Sep-17	08-Oct-17	27-Jul-17 A	27-Jul-17 A	100%	74																											
Preliminary Condition Survey / UU Identification																																			
DCS.1410	Visual Inspection and Submission of Condition Survey	12	15-Mar-17	28-Mar-17	15-Mar-17 A	28-Mar-17 A	100%	1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
DCS.1420	UU Checking and Exposure (Eastern Portion)	22	10-Apr-17	10-May-17	10-Apr-17 A	10-May-17 A	100%	1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
DCS.1430	UU Checking and Exposure (Western Portion)	27	11-May-17	12-Jun-17	11-May-17 A	12-Jun-17 A	100%	1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
DCS.1440	UU Checking and Exposure (Tree Location)	19	24-Jul-17	14-Aug-17	18-Jul-17 A	08-Aug-17 A	100%	6		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
CONSTRUCTION OF ELS FOR DCS INTAKE COFFERDAM (COFFERDAM A)																																			
General and Enabling Works																																			
DCS.2050	Tree Felling and Removal	8	13-Jul-17	21-Jul-17	11-Jul-17 A	18-Jul-17 A	100%	4																											
DCS.2060	Completion of Underground Utilities Diversion (By Others)	0		26-Jul-17		30-Sep-17*	0%	-66	-47																										
DCS.2070	Erection of Water Barrier for Fence Off Working Areas	10	22-Jul-17	02-Aug-17	31-Jul-17 A	12-Aug-17 A	100%	-8																											
DCS.2160	Removal of Abandoned CRGO Cooling Main Pipes	28	15-Jun-17	18-Jul-17	15-Jun-17 A	09-Aug-17 A	100%	-18																											
DCS.2170	Installation of Silt Curtain / Other Preventative Measures Works	26	13-Jul-17	11-Aug-17	15-Sep-17 A	22-Sep-17 A	100%	-35																											
DCS.2180	Installation of Temporary Decking over KGO Cooling Main	20	14-Jul-17	05-Aug-17	03-Oct-17	26-Oct-17	0%	-68	33																										
Interface Concurrent Contracts																																			
DCS.2210	Allow M+ Contractor for Construction of 600D Seawater Outfall Pipe in the 2m Zone within Cofferdam A	39	02-Jan-18	15-Feb-18	19-Jan-18	08-Mar-18	0%	-15	-15																										
DCS.2270	Handover Site to L1 Contractor	1	06-Oct-18	06-Oct-18	24-Oct-18	25-Oct-18*	0%	-15	-15																										
DCS.2280	Vacate and Handover Working Area within M+ Boundary	1	10-Feb-18	10-Feb-18	03-Mar-18	03-Mar-18*	0%	-15	-15																										
Clutch Pipe Pile Walls Installation																																			
Pre-grouting Works																																			
DCS.2310	Mobilization and Erection of Pre-grouting Plant and Equipment (3 Rigs)	8	02-Aug-17	10-Aug-17	14-Aug-17 A	22-Aug-17 A	100%	-9																											
DCS.2320	Drilling and Installation of TAM pipe for Pre-grouting (150 nos.+ additional 61 nos.)	26	12-Aug-17	11-Sep-17	04-Sep-17 A	04-Oct-17	99%	-19	-6																										
DCS.2330	Pre-grouting Works	29	25-Aug-17	27-Sep-17	26-Sep-17 A	30-Oct-17	15%	-25	-15																										
Clutch Pipe Pile Walls																																			
DCS.2110	Procurement of Clutch Pipe Pile (CPP) and Bits Materials</																																		



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 ³)	Limit Level (mg/m ³)
AM1	273.7	500
AM2A	274.2	500

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

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
AM1	143.6	260
AM2A	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	WKCDA	Contractor
Action Level				
1. Exceedance for one sample	<ul style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and WKCDA; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ul style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ul style="list-style-type: none"> 1. Notify Contractor 	<ul style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ul style="list-style-type: none"> 1. Identify source; 2. Inform IEC and WKCDA; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCDA; 8. If exceedance stops, cease additional monitoring. 	<ul style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ul style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ul style="list-style-type: none"> 1. Submit proposals for remedial to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	<ul style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCDA, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results. 	<ul style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the WKCDA on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures. 	<ul style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ul style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

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

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

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	WKCDA	Contractor
Design Check	1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report.	1. Check report submitted by ET; 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary. 2. Recommend remedial design if necessary.	-
Non-conformity on one occasion	1. Identify source of non-conformity; 2. Report to IEC and WKCDA; 3. Discuss remedial actions with IEC, WKCDA and Contractor; 4. Monitor remedial actions until rectification has been completed.	1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCDA on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated non-conformity	1. Identify source of non-conformity; 2. Report to IEC and WKCDA; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCDA and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal.	1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCDA on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions.	1. Notify Contractor; 2. Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

SEPTEMBER 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6	7	8	9
10	11 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	12	13	14	15 AM1, AM2A - 24hrTSP, 1hr TSP x3	16
17	18	19	20	21 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	22	23
24	25	26	27 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28	29	30
		Notes: AM1 - International Commerce Centre (ICC) AM2A - Austin Road West (Opposite to The Harbourside) NM1A - International Commerce Centre (ICC)				

OCTOBER 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	4	5	6	7
8	9 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	10	11	12	13 AM1, AM2A - 24hrTSP, 1hr TSP x3	14
15	16	17	18	19 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	20	21
22	23	24	25 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	26	27	28
29	30	31 AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring				
		Notes: AM1 - International Commerce Centre (ICC) AM2A - Austin Road West (Opposite to The Harbourside) NM1A - International Commerce Centre (ICC)				

F. Calibration Certifications

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1 (ICC)
Calibrated by : K.T.Ho
Date : 12/08/2017

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 Mar 2017
Slope (m) : 2.08464
Intercept (b) : -0.03684
Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1007
Ta(K) : 304

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.2	3.153	1.530	58	57.25
2	13 holes	8.4	2.861	1.390	52	51.33
3	10 holes	6.2	2.458	1.197	44	43.43
4	7 holes	4.4	2.071	1.011	36	35.54
5	5 holes	2.6	1.592	0.781	22	21.72

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

Sampler Calibration Relationship

Slope(m): 46.559

Intercept(b): -13.169

Correlation Coefficient(r): 0.9959

Checked by: _____
Magnum Fan

Date: 16/08/2017

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM2A (Harbourside)
Calibrated by : K.T.Ho
Date : 12/08/2017

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 20 Mar 2017
Slope (m) : 2.08464
Intercept (b) : -0.03684
Correlation Coefficient(r) : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1007
Ta(K) : 304

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.2	3.448	1.672	59	58.24
2	13 holes	9.2	2.994	1.454	52	51.33
3	10 holes	7.2	2.649	1.288	44	43.43
4	7 holes	4.6	2.117	1.033	34	33.56
5	5 holes	2.6	1.592	0.781	24	23.69

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

Sampler Calibration Relationship

Slope(m):39.424

Intercept(b):-7.058

Correlation Coefficient(r):0.9990

Checked by: _____
Magnum Fan

Date: 16/08/2017



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE
 VILLAGE OF CLEVES, OH
 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootsometer S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m ³)	VOLUME STOP (m ³)	DIFF VOLUME (m ³)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H ₂ O (in.)
1	NA	NA	1.00	1.4390	3.2	2.00
2	NA	NA	1.00	1.0240	6.4	4.00
3	NA	NA	1.00	0.9170	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7200	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120	0.7033	1.4257		0.9958	0.6920	0.8784
1.0078	0.9842	2.0163		0.9916	0.9683	1.2423
1.0057	1.0967	2.2543		0.9895	1.0791	1.3889
1.0045	1.1507	2.3643		0.9884	1.1322	1.4567
0.9992	1.3878	2.8514		0.9831	1.3654	1.7568

Qstd slope (m) = 2.08464 Qa slope (m) = 1.30537
 intercept (b) = -0.03684 intercept (b) = -0.02270
 coefficient (r) = 0.99994 coefficient (r) = 0.99994

y axis = SQRT[H₂O(Pa/760)(298/Ta)] y axis = SQRT[H₂O(Ta/Pa)]

CALCULATIONS

$$V_{std} = \text{Diff. Vol}[(Pa - \text{Diff. Hg})/760] (298/Ta)$$

$$Q_{std} = V_{std}/\text{Time}$$

$$V_a = \text{Diff Vol} [(Pa - \text{Diff Hg})/Pa]$$

$$Q_a = V_a/\text{Time}$$

For subsequent flow rate calculations:

$$Q_{std} = 1/m \{ [\text{SQRT}(H_2O(Pa/760)(298/Ta))] - b \}$$

$$Q_a = 1/m \{ [\text{SQRT } H_2O(Ta/Pa)] - b \}$$



SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan

TEL : 048-933-1582 FAX : 048-933-1591

CALIBRATION CERTIFICATE

Date: December 21, 2016

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	:	080000-42
Quantity	:	1 unit
Serial No.	:	276020
Sensitivity	:	0.001 mg/m ³
Sensitivity Adjustment	:	787CPM
Scale Setting	:	December 16, 2016

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Shintaro Okamura

Shintaro Okamura
Overseas Sales Division

TEST CERTIFICATE

CUSTOMER : INNOTECH INSTRUMENTATION CO.LTD.

Report No. 16-1879-1.



DATE 19/ December /2016

APPROVE BY	VERIFIED BY	ISSUED BY

PRODUCT NAME :	Digital Dust Indicator
MODEL NUMBER :	LD-3B
SERIAL NUMBER :	276020
CALIBRATION DATE :	16 – December – 2016

Testing Category	Judging Standard	Judgment		
		OK	Reading of this Instrument	Correction
Function Test	Switch, Display, Wiring will normally function			Inspection chart
Sensitivity Calibration	Count is $\pm 2\%$ accurate to the master by the standard calibration particle	799 CPM	795 CPM	-0.5 %
Dust Concentration Measuring	Count is $\pm 10\%$ accurate to the master under the 3 different concentration.	2053 CPM	1979 CPM	-3.6 %
		978 CPM	957 CPM	-2.1 %
		516 CPM	507 CPM	-1.7 %
Reproducibility	The difference between maximum and minimum value of sensitivity adjustment scale setting must be 5.0 % or less of maximum value. (The results of measurement of sensitivity adjustment in 5 times are within this range.)	OK	Test atmosphere	Humidity
		23 °C	45 %	
	Synthetic Judgment	Good		


REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

REPORT NO. : HK1710039
PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
DATE OF ISSUE : 17/01/2017

CUSTOMER : Envirotech Services Company
ADDRESS : Rm. 113, 1/F., MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.

REPORT NO. : HK1710039
PROJECT ITEM NO. : HK1710039-01
PERFORMANCE CHECK / CALIBRATED EQUIPMENT
TYPE : Digital Dust Indicator
MANUFACTURER : SIBATA
MODEL NO. : LD-3B
SERIAL NO. : 276020
EQUIPMENT NO. : ---
RECEIPT DATE : 11/01/2017
PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

PERFORMANCE CHECK / CALIBRATION Information

CODE	Calibration Parameter	Method Procedure	Reference Method
Dust PC/CAL	Performance Check / Calibration of Dust Meter	CAL003	General Technical Requirements of Environmental Monitoring, Environmental Monitoring & Audit Guidelines for Development Projects in HK

Notes : 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 2. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Approved Signatory

Issue Date: 17/01/2017

 Wong Po Yan Pauline
 (Testing Engineer)



REPORT OF PERFORMANCE CHECK / CALIBRATION

PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017
 REPORT NO. : HK1710039

PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 276020
 EQUIPMENT NO. : —
 SENSITIVITY ADJUSTMENT : ---
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

STANDARD EQUIPMENT

TYPE : HIGH VOLUME AIR SAMPLER
 MANUFACTURER : TISCH
 MODEL NO. : TE-5170
 EQUIPMENT REF NO. : PTL_HV002
 LAST CALIBRATION DATE : 23/11/2016

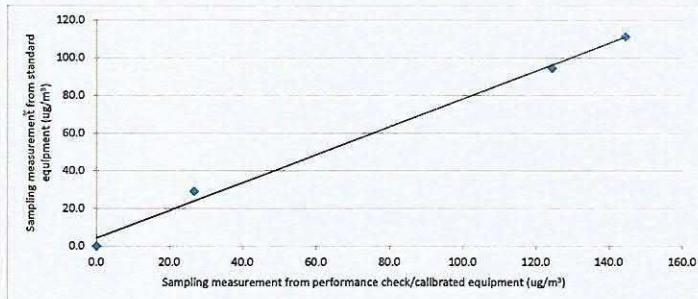
EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration): 787 CPM
 Sensitivity Adjustment Scale Setting (After Performance check / Calibration): 787 CPM

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m³ (Standard equipment) (Y - Axis)	Total Count ² (Performance Check / Calibrated equipment)	Concentration in Count/Minute ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check ¹	12/01/2017,10:00:00 AM	19	1016	0	0	0
1	12/01/2017,11:10:00 AM	19	1016	95	7462	124
2	12/01/2017,2:30:00 PM	19	1016	111	8670	145
3	12/01/2017,3:34:00 PM	19	1016	29	1600	27

Linear Regression of Y on X

Slope (K-factor) : 0.7
 Correlation Coefficient : 0.9972
 Validity of Performance Check / Calibration Record : 12/01/2018



- Notes : 1. Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.
 2. Total Count was measured by Digital Dust Indicator.
 3. Count/minute was calculated by (Total Count/60)
 4. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 5. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Operator: MA Ching Him, Jackey Signature: Date: 12/01/2017

Checked by: Wong Po Yan, Pauline Signature: Date: 17/01/2017



SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan

TEL : 048-933-1582 FAX : 048-933-1591

CALIBRATION CERTIFICATE

Date: December 21, 2016

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	:	080000-42
Quantity	:	1 unit
Serial No.	:	2Z6240
Sensitivity	:	0.001 mg/m ³
Sensitivity Adjustment	:	565CPM
Scale Setting	:	December 16, 2016

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Shintaro Okamura

Shintaro Okamura
Overseas Sales Division

TEST CERTIFICATE

CUSTOMER : INNOTECH INSTRUMENTATION CO.LTD.

Report No. 16-1879-2

 SIBATA SCIENTIFIC TECHNOLOGY LTD.

DATE 19/ December /2016

APPROVE BY	VERIFIED BY	ISSUED BY
		

PRODUCT NAME : Digital Dust Indicator
MODEL NUMBER : LD-3B
SERIAL NUMBER : 2Z6240
CALIBRATION DATE : 16 - December - 2016

Testing Function Test	Category	Judging Standard	Judgment		
			OK	Correction	Inspection chart
Sensitivity Calibration	Count is $\pm 2\%$ accurate to the master by the standard calibration particle	Reading of Master	Reading of Instrument	Reference Value(S)	
Dust Concentration Measuring	Count is $\pm 10\%$ accurate to the master under the 3 different concentration.	798 CPM 2053 CPM 978 CPM 516 CPM	796 CPM 1989 CPM 966 CPM 515 CPM	-0.3 % -3.1 % -1.2 % -0.2 %	565 CPM
Reproducibility	The difference between maximum and minimum value of sensitivity adjustment scale setting must be 5.0 % or less of maximum value. (The results of measurement of sensitivity adjustment in 5 times are within this range.)	OK	Temperature 23 °C	Humidity 45 %	Test atmosphere
	Synthetic Judgment	Good			



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

REPORT NO. : HK1710040
 PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017

CUSTOMER : Envirotech Services Company
 ADDRESS : Rm. 113, 1/F., MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.

REPORT NO. : HK1710040
 PROJECT ITEM NO. : HK1710040-01

PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 2Z6240
 EQUIPMENT NO. : ---
 RECEIPT DATE : 11/01/2017
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

PERFORMANCE CHECK / CALIBRATION Information

CODE	Calibration Parameter	Method Procedure	Reference Method
Dust PC/CAL	Performance Check / Calibration of Dust Meter	CAL003	General Technical Requirements of Environmental Monitoring, Environmental Monitoring & Audit Guidelines for Development Projects in HK

Notes : 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 2. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Approved Signatory :

Issue Date:

17/01/2017

Wong Po Yan Pauline
 (Testing Engineer)



REPORT OF PERFORMANCE CHECK / CALIBRATION

PROJECT NAME : PERFORMANCE CHECK / CALIBRATION OF DUST METER
 DATE OF ISSUE : 17/01/2017
 REPORT NO. : HK1710040

PERFORMANCE CHECK / CALIBRATED EQUIPMENT

TYPE : Digital Dust Indicator
 MANUFACTURER : SIBATA
 MODEL NO. : LD-3B
 SERIAL NO. : 2Z6240
 EQUIPMENT NO. : ---
 SENSITIVITY ADJUSTMENT : ---
 PERFORMANCE CHECK / CALIBRATION DATE : 12/01/2017

STANDARD EQUIPMENT

TYPE : HIGH VOLUME AIR SAMPLER
 MANUFACTURER : TISCH
 MODEL NO. : TE-5170
 EQUIPMENT REF NO. : PTL_HV002
 LAST CALIBRATION DATE : 23/11/2016

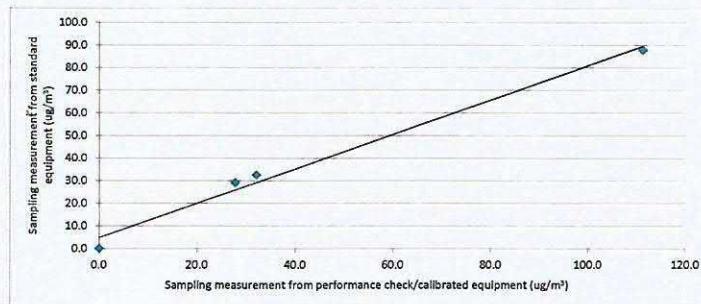
EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration): 565 CPM
 Sensitivity Adjustment Scale Setting (After Performance check / Calibration): 565 CPM

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m³ (Standard equipment) (Y - Axis)	Total Count ² (Performance Check / Calibrated equipment)	Concentration in Count/Minute ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check ¹	12/01/2017,10:00:00 AM	19	1016	0	0	0
1	12/01/2017,12:15:00 PM	19	1016	88	6680	111
2	12/01/2017,1:25:00 PM	19	1016	33	1924	32
3	12/01/2017,3:34:00 PM	19	1016	29	1664	28

Linear Regression of Y on X

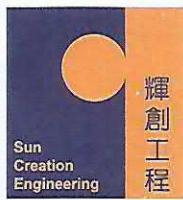
Slope (K-factor) : 0.8
 Correlation Coefficient : 0.9940
 Validity of Performance Check / Calibration Record : 12/01/2018



- Notes : 1. Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.
 2. Total Count was measured by Digital Dust Indicator.
 3. Count/minute was calculated by (Total Count/60)
 4. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
 5. Performance Check / Calibration result relates to performance check / calibration item(s) as received.

Operator: MA Ching Him, Jackey Signature: _____ Date: 12/01/2017

Checked by: Wong Po Yan, Pauline Signature: Dong Date: 17/01/2017



輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C174093
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC17-1613)

Date of Receipt / 收件日期: 11 July 2017

Description / 儀器名稱 : Precision Integrating Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-18
Serial No. / 編號 : 00360030
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 : $(23 \pm 2)^\circ\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration

DATE OF TEST / 測試日期 : 22 July 2017

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification. (after adjustment)
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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By :
測試
H T Wong
Technical Officer

Certified By :
核證
K C Lee
Engineer

Date of Issue : 24 July 2017
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.
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Sun Creation Engineering Limited - Calibration & Testing Laboratory
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Certificate No. : C174093
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1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration using the internal standard (After Adjustment) was performed before the test from 6.1.1.2 to 6.4.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C170048
CL281	Multifunction Acoustic Calibrator	PA160023

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Adjustment

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	A	Fast	94.00	1	* 92.9	± 0.7

* Out of IEC 60651 Type 1 Spec.

6.1.1.2 After Adjustment

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	A	Fast	94.00	1	94.1	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)	UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
60 - 120	LA	A	Fast	94.00	1	94.1 (Ref.)	94.1 (Ref.)
				104.00			104.1
				114.00			114.1

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

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輝創工程有限公司 - 校正及檢測實驗所

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Certificate of Calibration 校正證書

Certificate No. : C174093
證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 110	LA	A	Fast	94.00	1	94.1	Ref.
			Slow			94.0	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration			
50 - 110	LA	A	Fast	106.00	Continuous	106.0	Ref.	
	LAmx				200 ms	105.1	-1.0 ± 1.0	
	LA		Slow		Continuous	106.0	Ref.	
	LAmx				500 ms	102.4	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LA	A	Fast	94.00	31.5 Hz	54.5	-39.4 ± 1.5
					63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.7	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.7	-3.2 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	95.4	$+1.2 \pm 1.0$
					4 kHz	95.1	$+1.0 \pm 1.0$
					8 kHz	93.0	$-1.1 (+1.5 ; -3.0)$
					12.5 kHz	89.8	$-4.3 (+3.0 ; -6.0)$

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.

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C174093
證書編號

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 110	LC	C	Fast	94.00	31.5 Hz	90.9	-3.0 ± 1.5
					63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.0
					250 Hz	94.1	0.0 ± 1.0
					500 Hz	94.2	0.0 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	94.0	-0.2 ± 1.0
					4 kHz	93.3	-0.8 ± 1.0
					8 kHz	91.1	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
50 - 110	LAeq	A	10 sec.	4	1	1/10	110	100	100.1	± 0.5
						1/10 ²		90	90.1	± 0.5
			60 sec.			1/10 ³		80	79.5	± 1.0
			5 min.			1/10 ⁴		70	69.8	± 1.0

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C174093
證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 307435

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value : 94 dB	: 31.5 Hz - 125 Hz	: ± 0.35 dB
	: 250 Hz - 500 Hz	: ± 0.30 dB
	: 1 kHz	: ± 0.20 dB
	: 2 kHz - 4 kHz	: ± 0.35 dB
	: 8 kHz	: ± 0.45 dB
	: 12.5 kHz	: ± 0.70 dB
	: 104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	: 114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
	Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

- 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.

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c/o 香港新界屯門興安里一號青山工場四樓

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輝創工程有限公司
Sun Creation Engineering Limited
Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C171447
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC17-0633) Date of Receipt / 收件日期: 16 March 2017
Description / 儀器名稱 : Sound Level Calibrator
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-73
Serial No. / 編號 : 10486660
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 ± 2)°C
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 March 2017

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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By :
測試
H T Wong
Technical Officer

Certified By :
核證
K C Lee
Project Engineer

Date of Issue : 23 March 2017
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.

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輝創工程有限公司 – 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel 電話: 2927 2606 Fax 傳真: 2744 8986 E-mail 電郵: callab@suncreation.com Website 網址: www.suncreation.com



Certificate of Calibration

校正證書

Certificate No. : C171447
證書編號

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

4. Test procedure : MA100N.

5. 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	93.6	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.987	1 kHz ± 2 %	± 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.

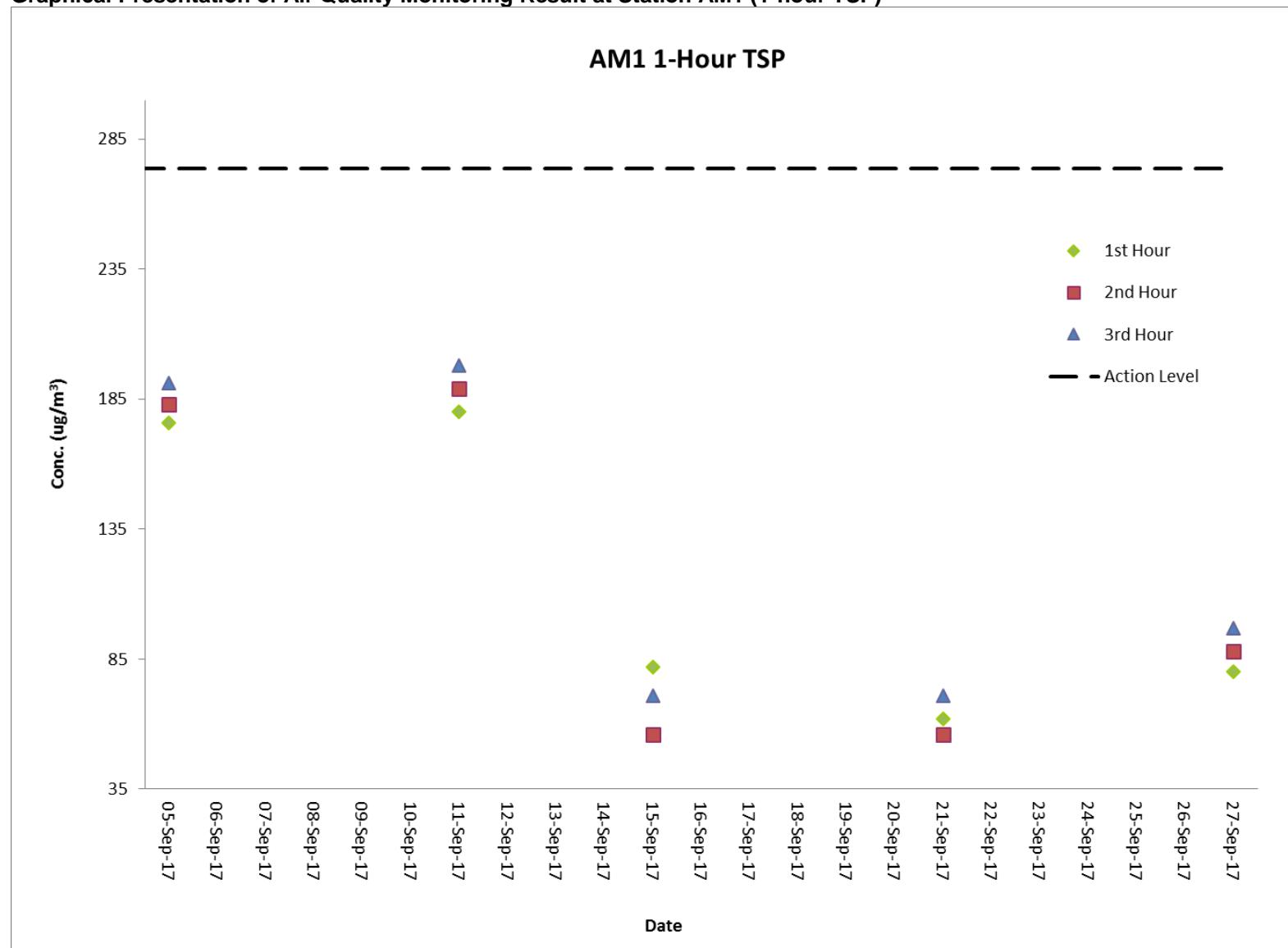
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G. Graphical Plots of the Monitoring Results

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 st Hour	2 nd Hour	3 rd Hour		
05-Sep-17	Fine	10:40 - 16:00	176	183	191	273.7	500
11-Sep-17	Sunny	10:40 - 16:00	180	189	198	273.7	500
15-Sep-17	Fine	8:00 - 11:00	82	56	71	273.7	500
21-Sep-17	Fine	10:48 - 16:00	62	56	71	273.7	500
27-Sep-17	Sunny	10:40 - 16:00	80	88	97	273.7	500

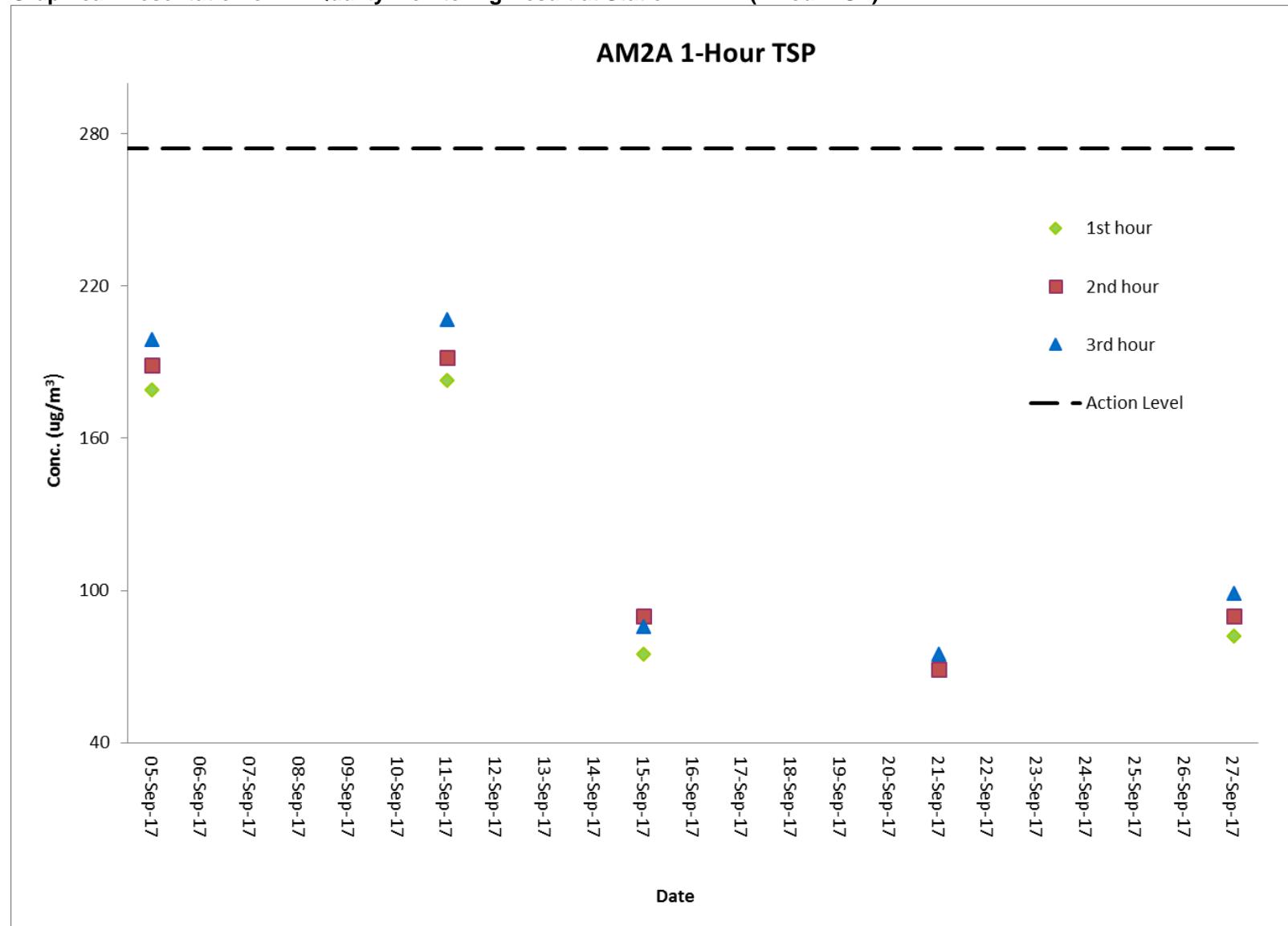
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



Air Quality Monitoring Result at Station AM2A (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 st Hour	2 nd Hour	3 rd Hour		
05-Sep-17	Fine	10:55 - 16:10	179	189	199	274.2	500
11-Sep-17	Sunny	10:57 - 16:10	183	192	207	274.2	500
15-Sep-17	Fine	8:12 - 11:12	75	90	86	274.2	500
21-Sep-17	Fine	11:02 - 16:10	71	69	75	274.2	500
27-Sep-17	Sunny	10:55 - 16:10	82	90	99	274.2	500

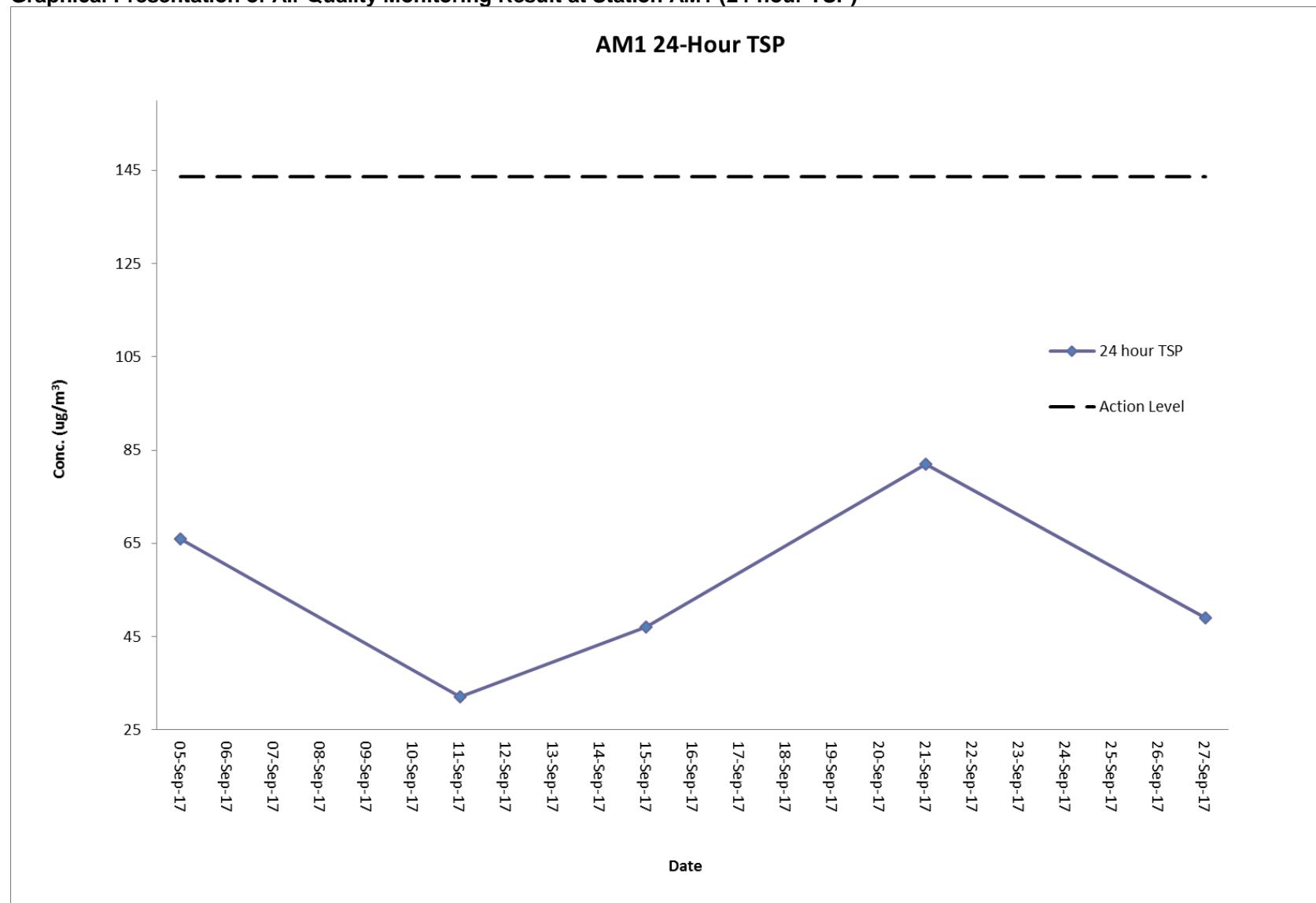
Graphical Presentation of Air Quality Monitoring Result at Station AM2A (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. ($\mu\text{g}/\text{m}^3$)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
05-Sep-17	10:42	06-Sep-17	10:42	2.6436	2.76	21528.38	21552.38	24	1.23	1.23	1.23	66	Fine	143.6	260
11-Sep-17	10:42	12-Sep-17	10:42	2.6236	2.6809	21552.38	21576.38	24	1.23	1.23	1.23	32	Sunny	143.6	260
15-Sep-17	08:02	16-Sep-17	08:02	2.6218	2.7046	21576.38	21600.38	24	1.23	1.23	1.23	47	Fine	143.6	260
21-Sep-17	10:50	22-Sep-17	10:50	2.6554	2.8009	21600.38	21624.38	24	1.23	1.23	1.23	82	Fine	143.6	260
27-Sep-17	10:42	28-Sep-17	10:42	2.6141	2.7009	21624.38	21648.38	24	1.23	1.23	1.23	49	Sunny	143.6	260

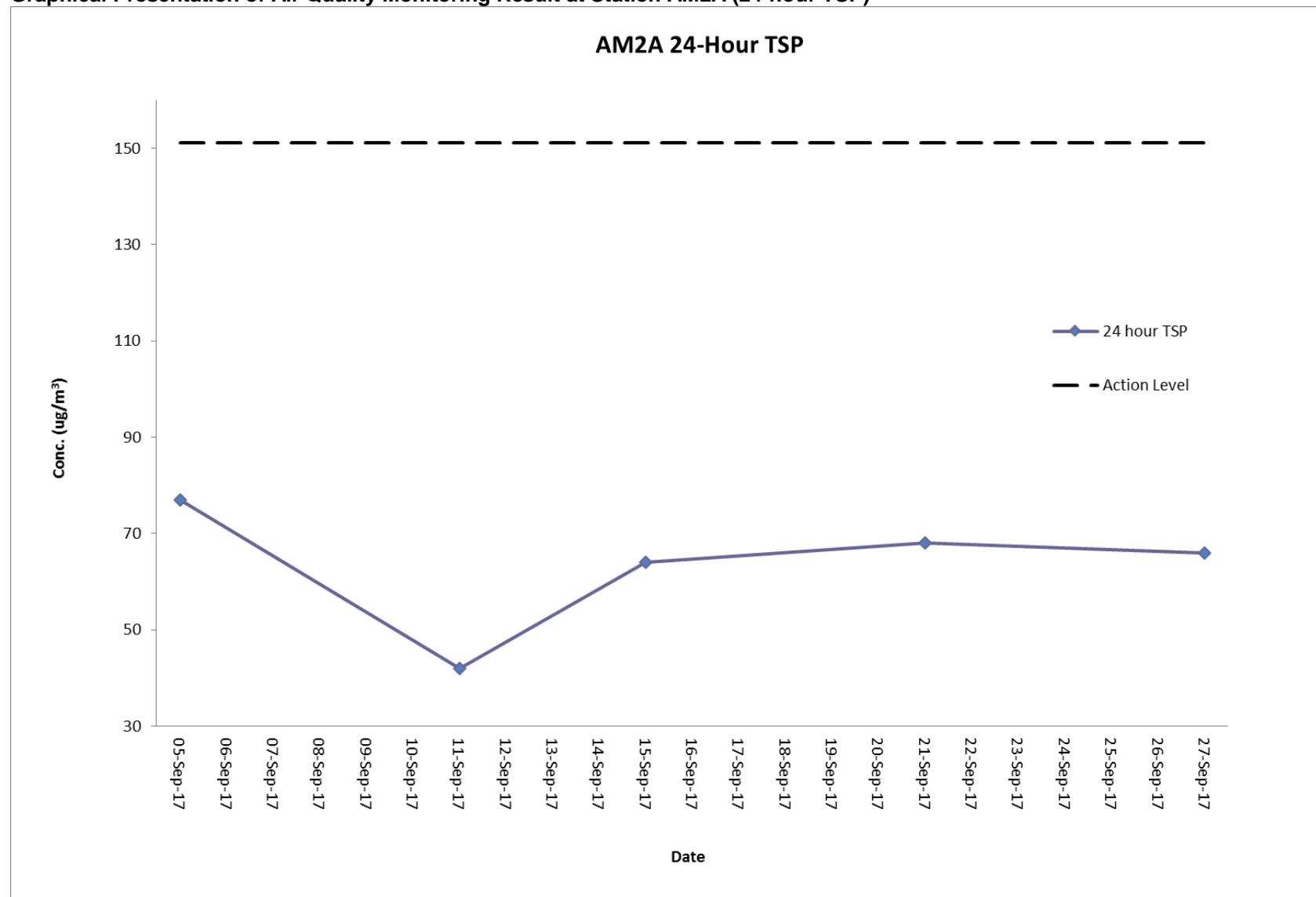
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2A (24-hour TSP)

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
05-Sep-17	10:52	06-Sep-17	10:52	2.6118	2.7501	17183.59	17207.59	24	1.24	1.24	1.24	77	Fine	151.1	260
11-Sep-17	10:52	12-Sep-17	10:52	2.6230	2.6987	17207.59	17231.59	24	1.24	1.24	1.24	42	Sunny	151.1	260
15-Sep-17	08:14	16-Sep-17	08:14	2.6251	2.7400	17231.59	17255.59	24	1.24	1.24	1.24	64	Fine	151.1	260
21-Sep-17	11:00	22-Sep-17	11:00	2.6503	2.7711	17255.59	17279.59	24	1.24	1.24	1.24	68	Fine	151.1	260
27-Sep-17	10:52	28-Sep-17	10:52	2.6318	2.7494	17279.59	17303.59	24	1.24	1.24	1.24	66	Sunny	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2A (24-hour TSP)



Noise Monitoring Result at Station NM1A

Date	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq} (30 min.) dB(A)
05-Sep-17	14:00	68.0	64.1	69
05-Sep-17	14:05	67.7	63.7	
05-Sep-17	14:10	66.7	62.1	
05-Sep-17	14:15	67.8	63.2	
05-Sep-17	14:20	68.0	62.7	
05-Sep-17	14:25	69.1	63.9	
11-Sep-17	14:00	68.0	63.8	69
11-Sep-17	14:05	67.7	63.2	
11-Sep-17	14:10	68.5	63.7	
11-Sep-17	14:15	68.0	62.9	
11-Sep-17	14:20	68.9	63.8	
11-Sep-17	14:25	68.7	63.5	
21-Sep-17	14:00	68.2	63.1	69
21-Sep-17	14:05	68.7	64.1	
21-Sep-17	14:10	67.1	62.7	
21-Sep-17	14:15	68.4	63.2	
21-Sep-17	14:20	69.0	64.1	
21-Sep-17	14:25	68.7	63.8	
27-Sep-17	14:00	67.9	63.1	69
27-Sep-17	14:05	68.0	63.4	
27-Sep-17	14:10	68.8	63.9	
27-Sep-17	14:15	67.7	63.5	
27-Sep-17	14:20	67.9	63.7	
27-Sep-17	14:25	68.0	63.9	

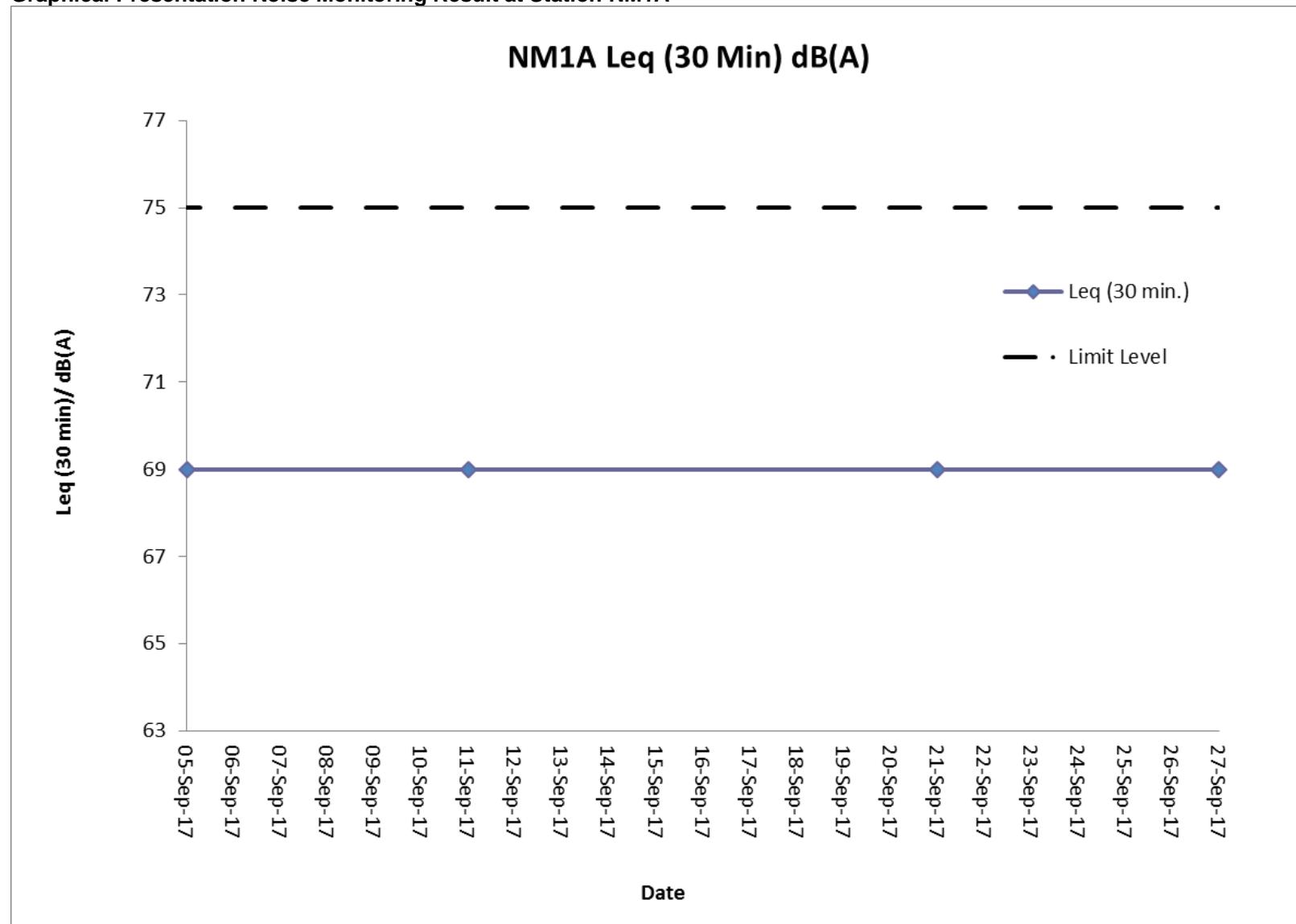
Remarks:

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



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

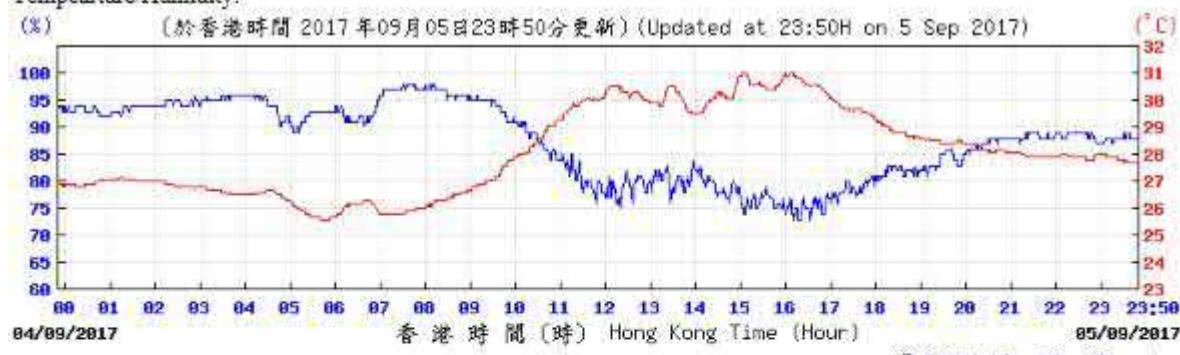
Graphical Presentation Noise Monitoring Result at Station NM1A



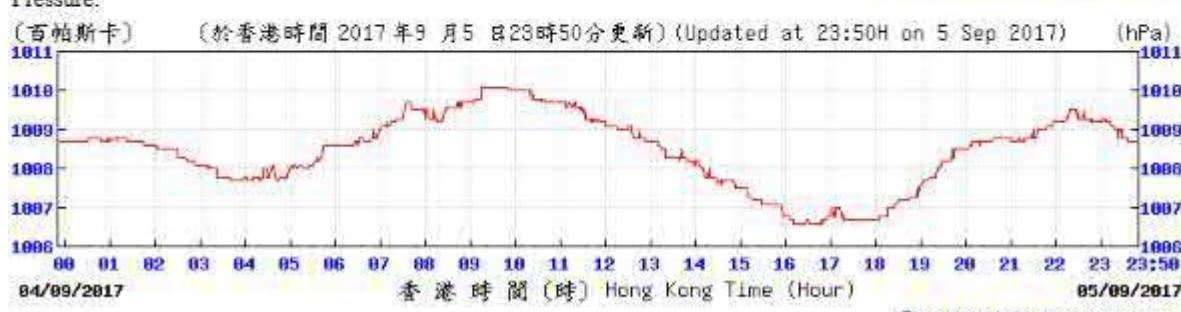
H. Meteorological Data Extracted from Hong Kong Observatory

Extract of Meteorological Observations for King's Park Automatic Weather Station, September 2017

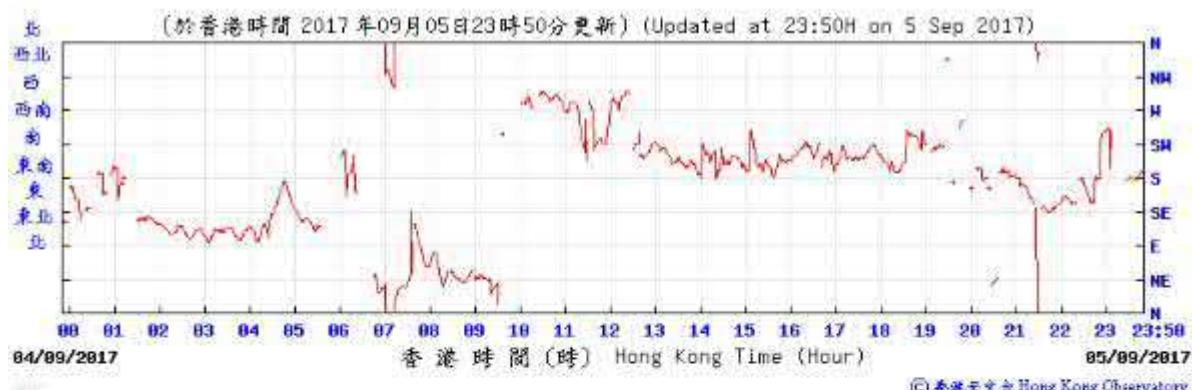
Tempearture Humidity:



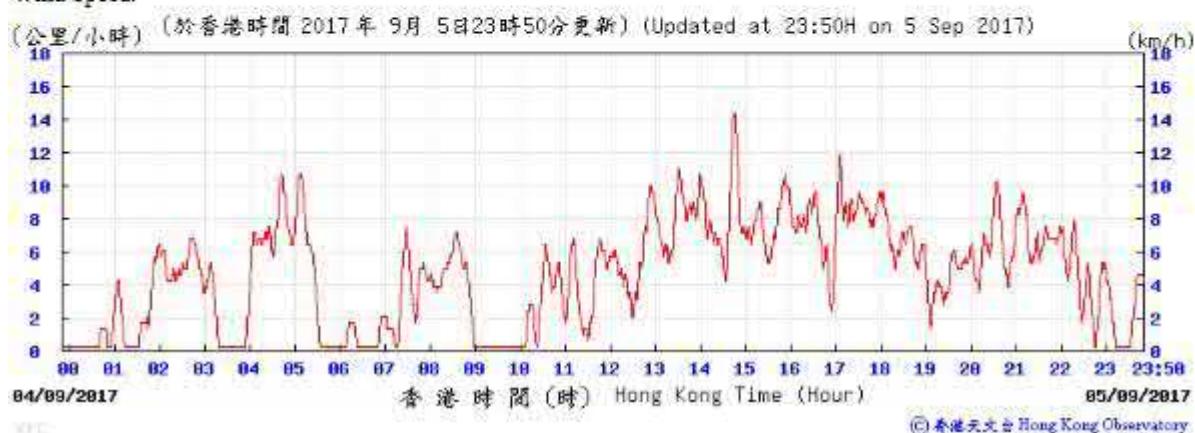
Pressure:



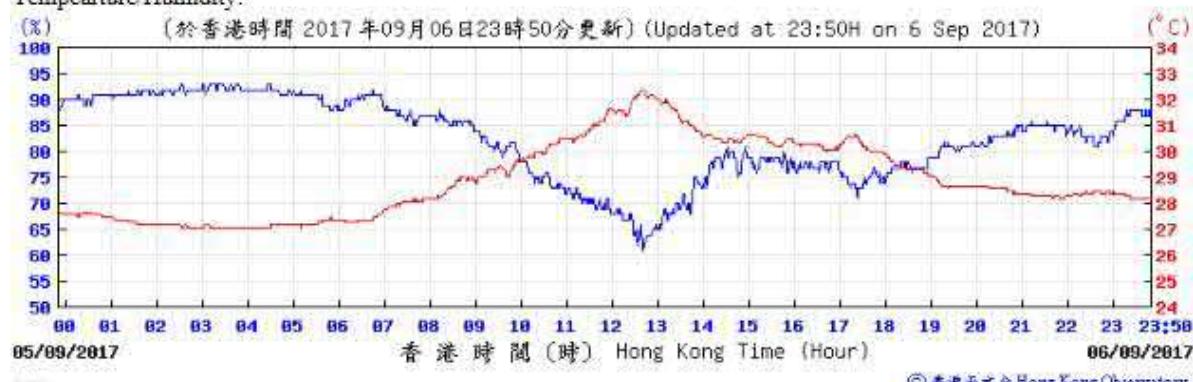
Wind Direction:



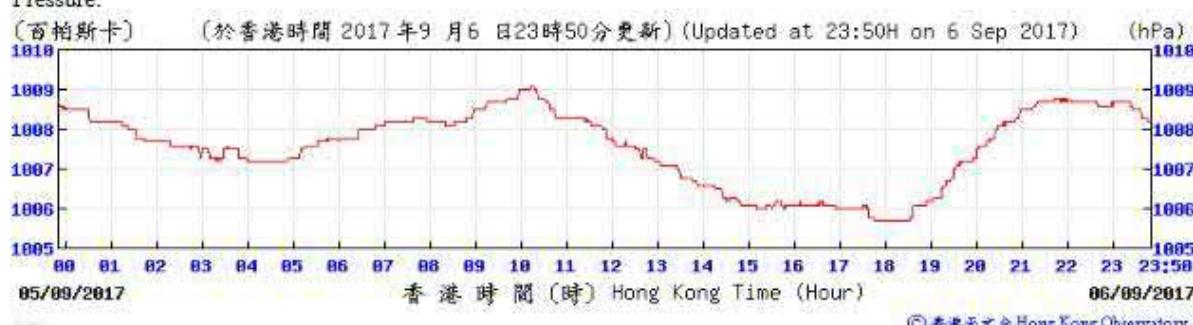
Wind Speed:



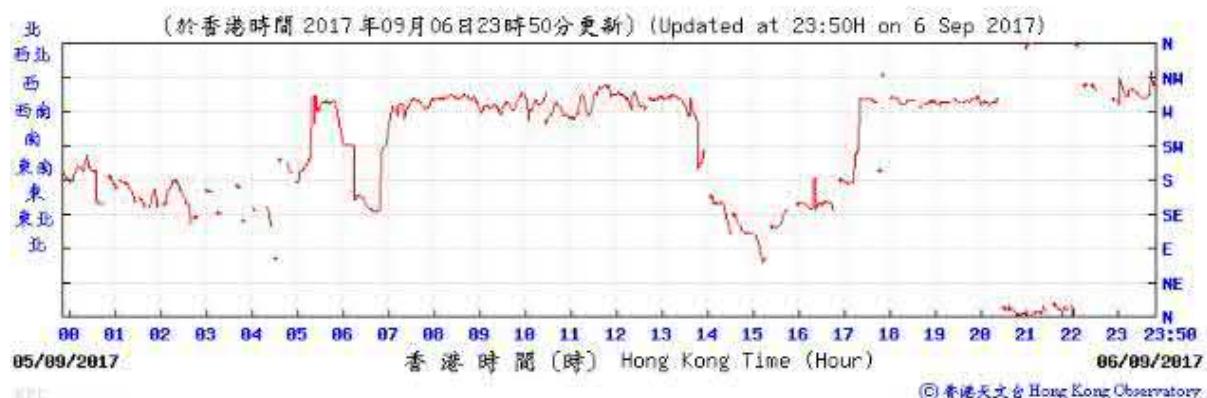
Tempearture/Humidity:



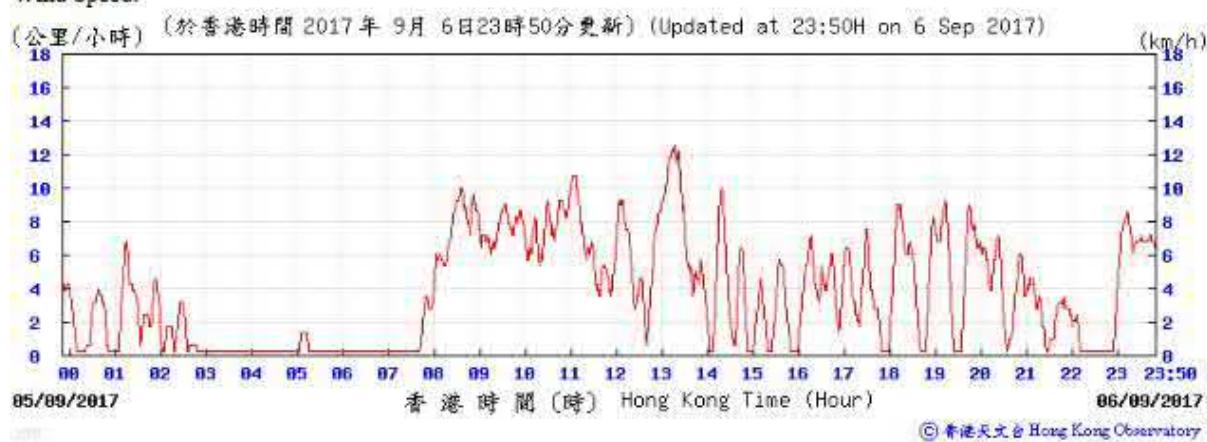
Pressure:



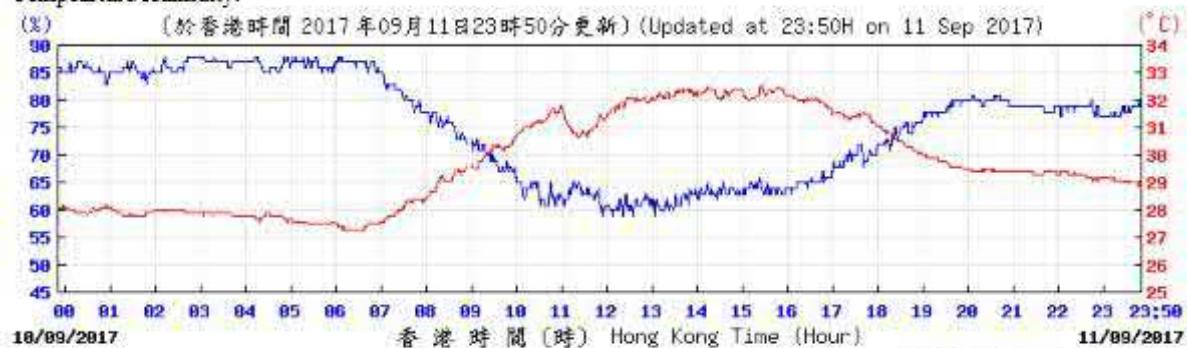
Wind Direction:



Wind Speed:



Tempearture/Humidity:



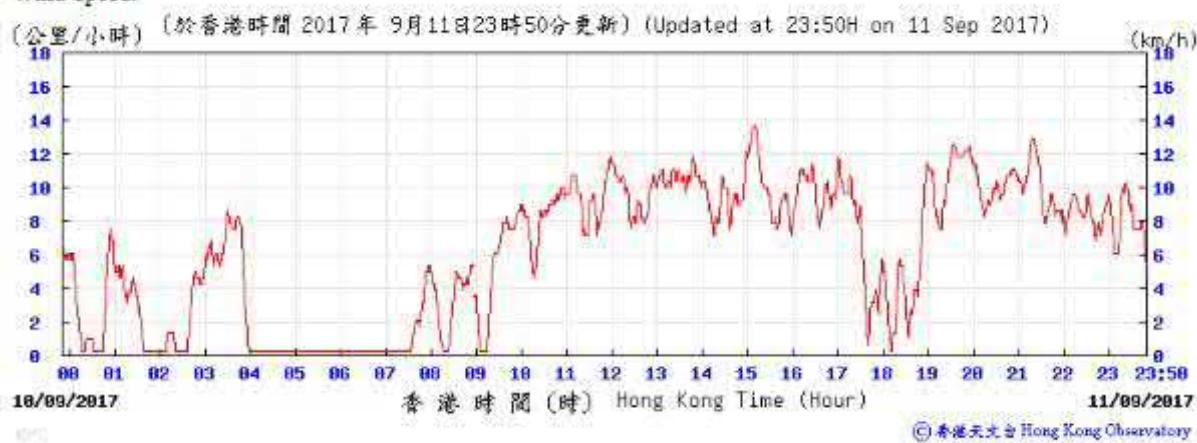
Pressure:



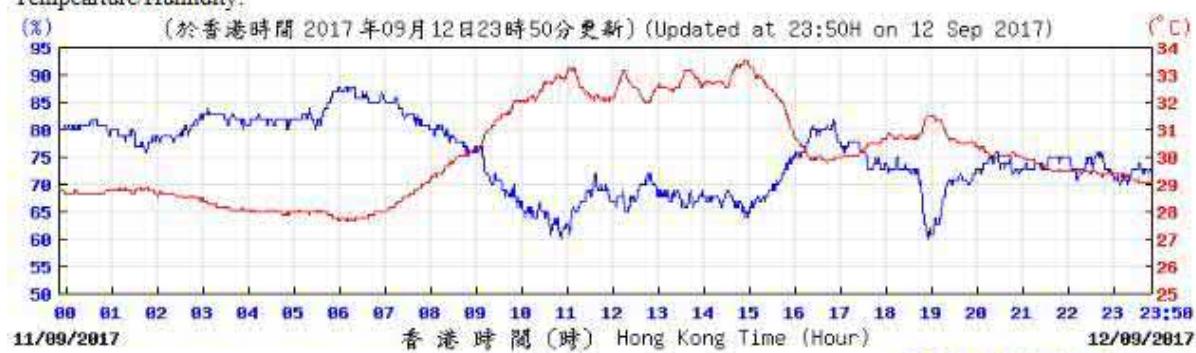
Wind Direction:



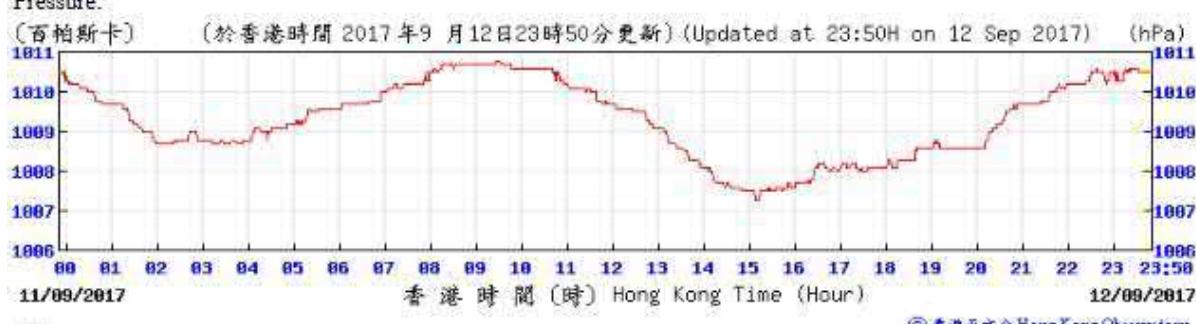
Wind Speed:



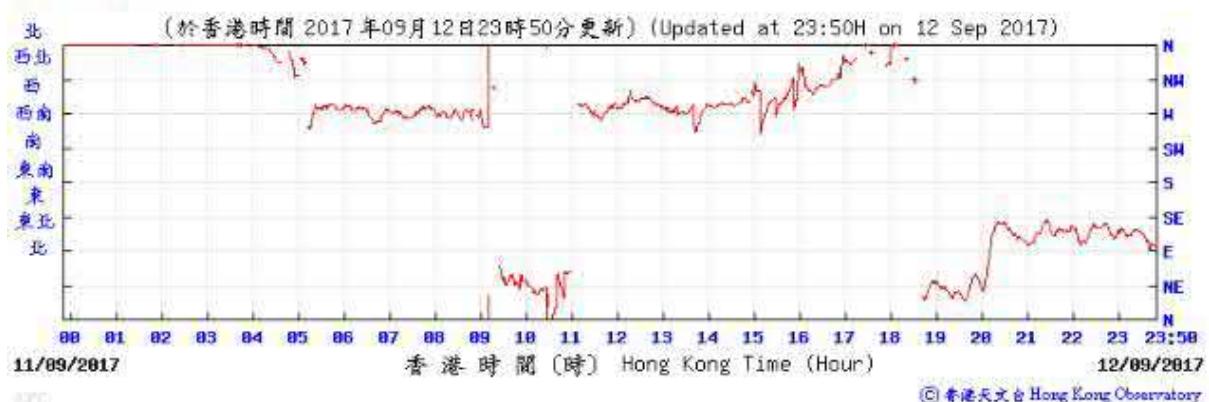
Tempearture/Humidity:



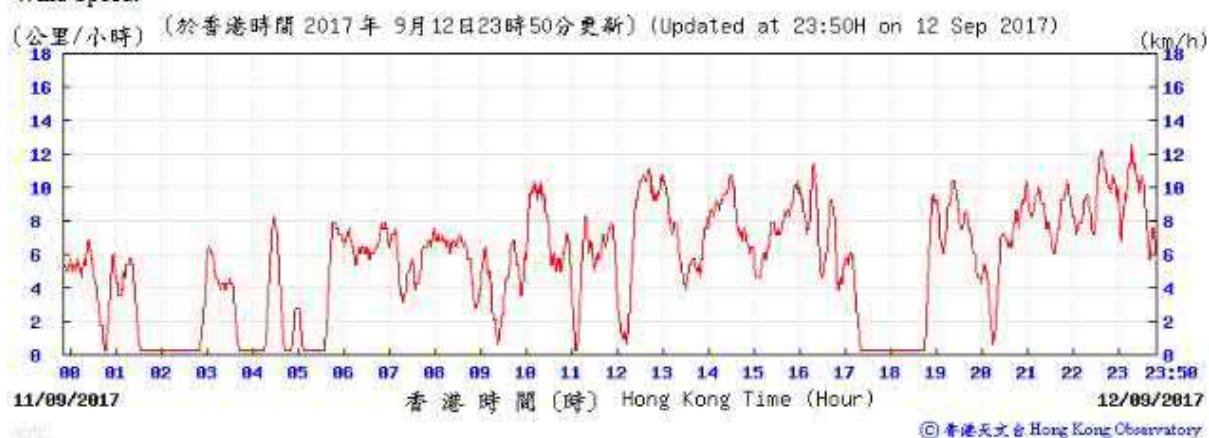
Pressure:



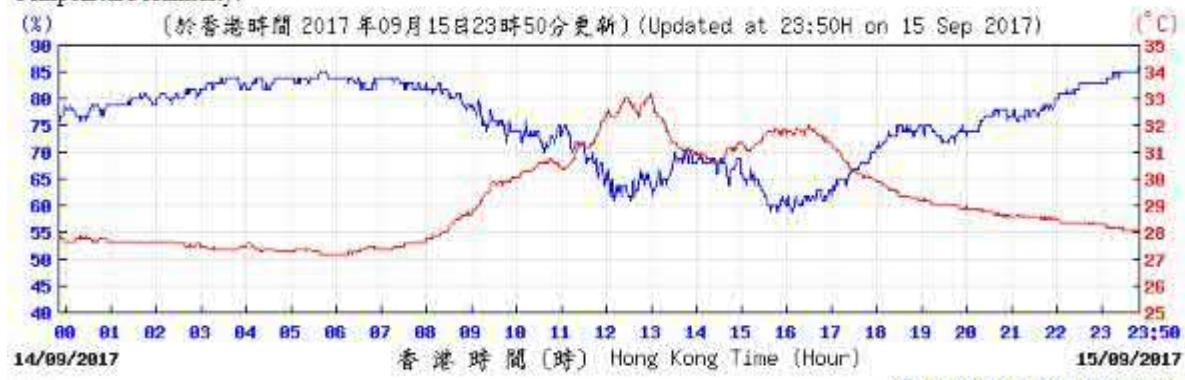
Wind Direction:



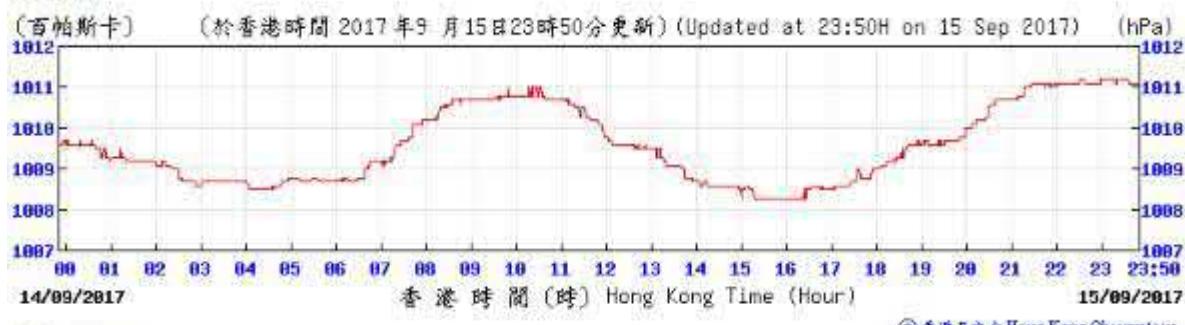
Wind Speed:



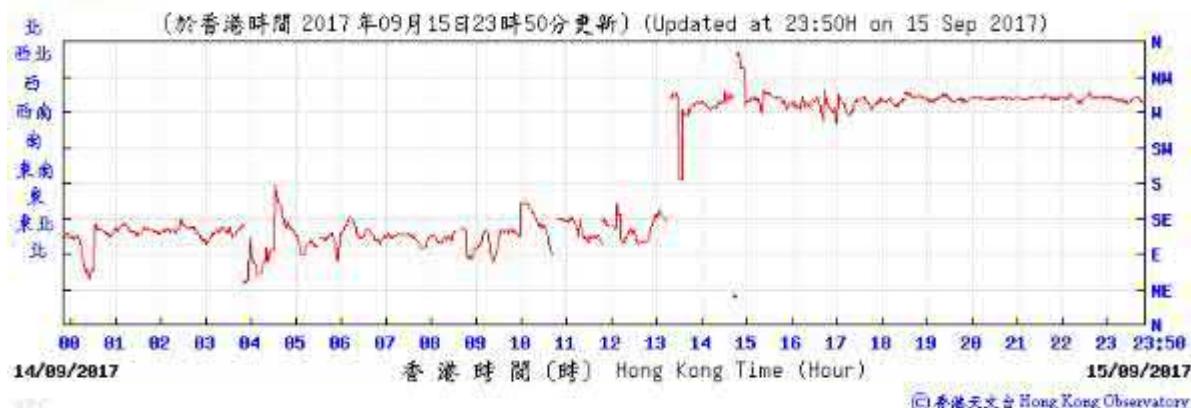
Tempearture Humidity:



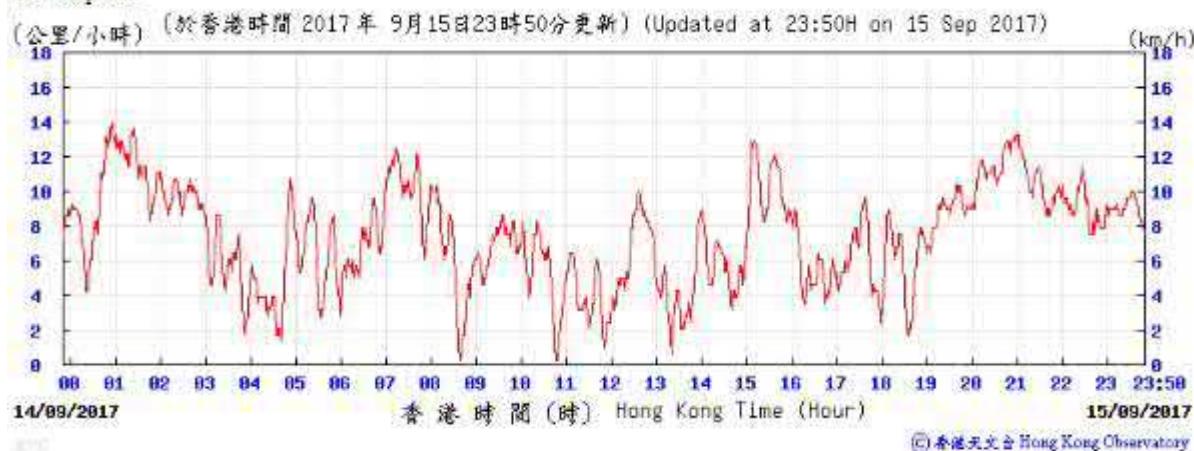
Pressure:



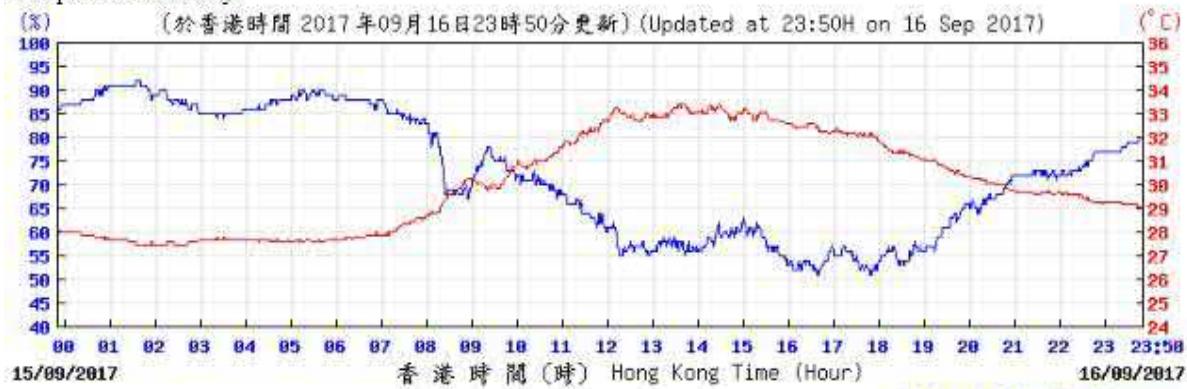
Wind Direction:



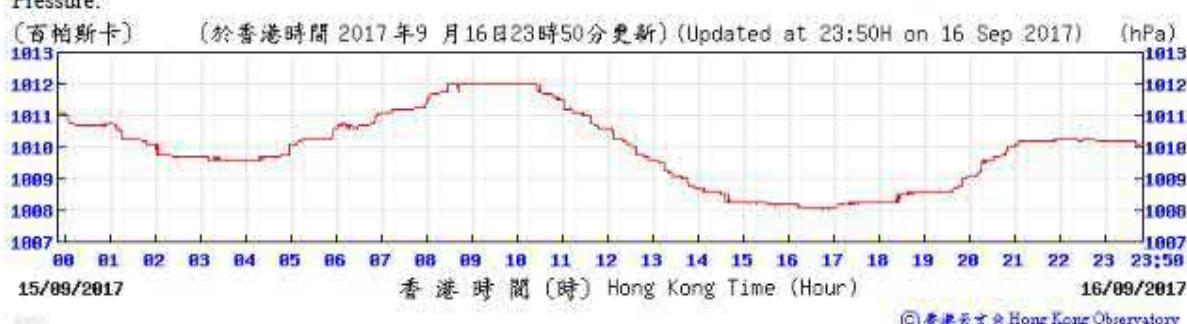
Wind Speed:



Tempearture/Humidity:



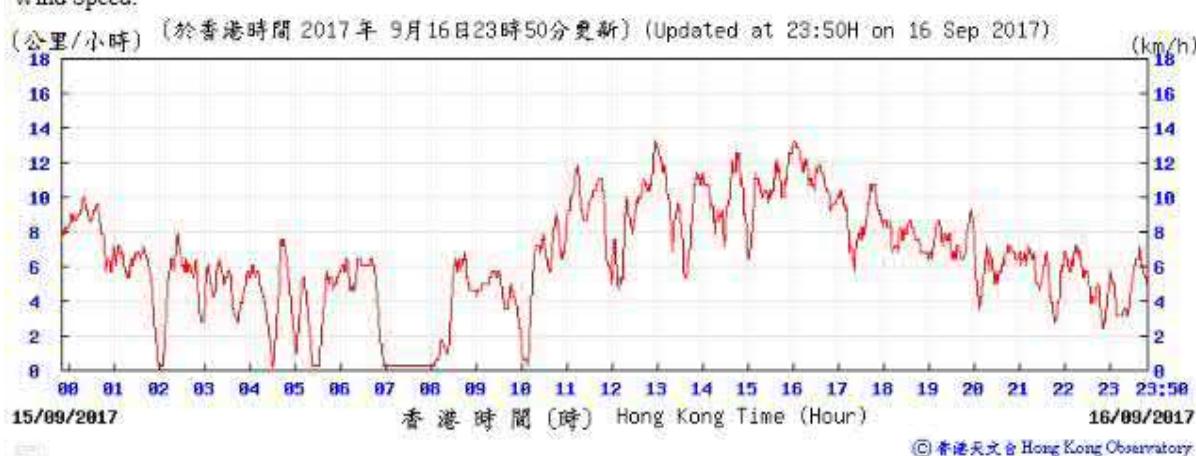
Pressure:



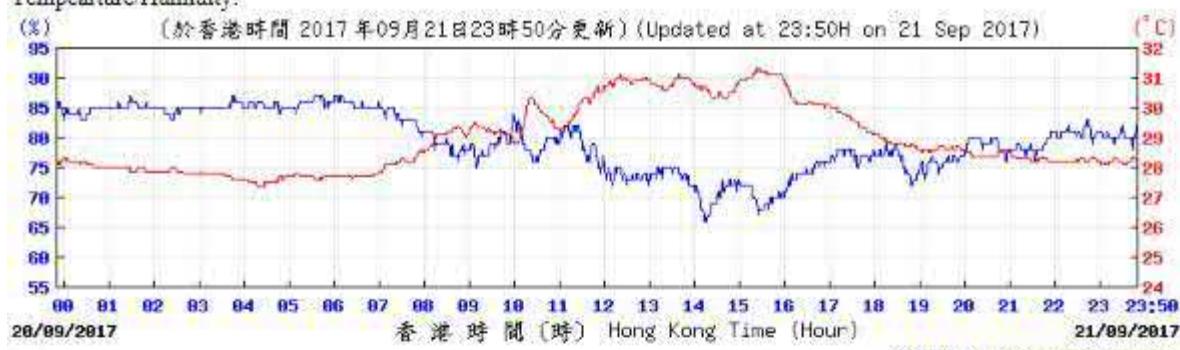
Wind Direction:



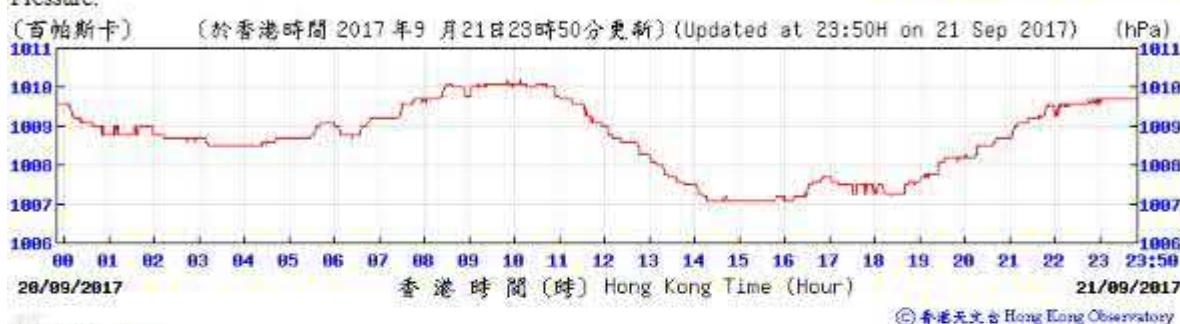
Wind Speed:



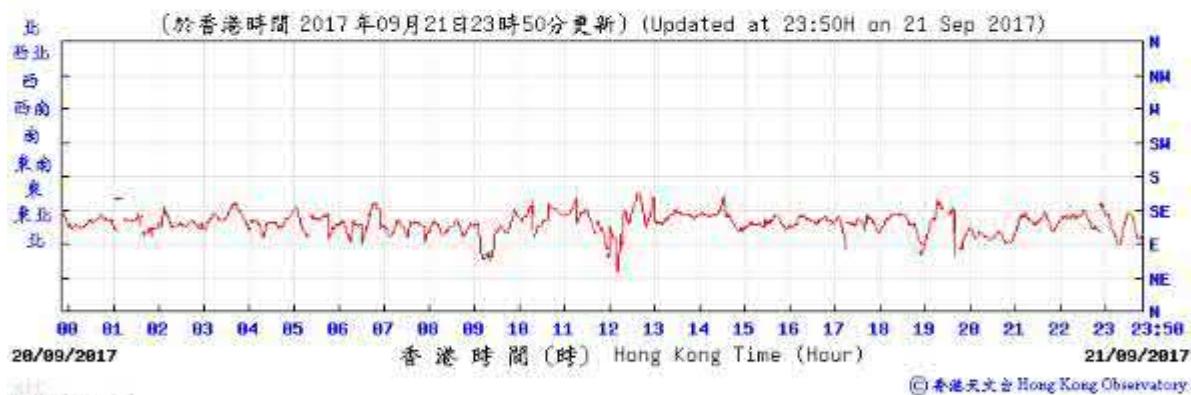
Tempearture Humidity:



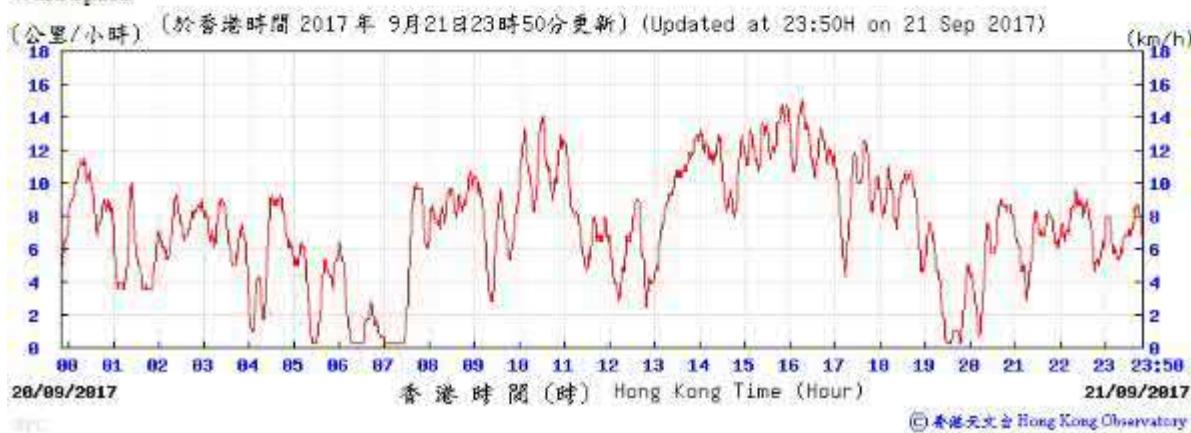
Pressure:



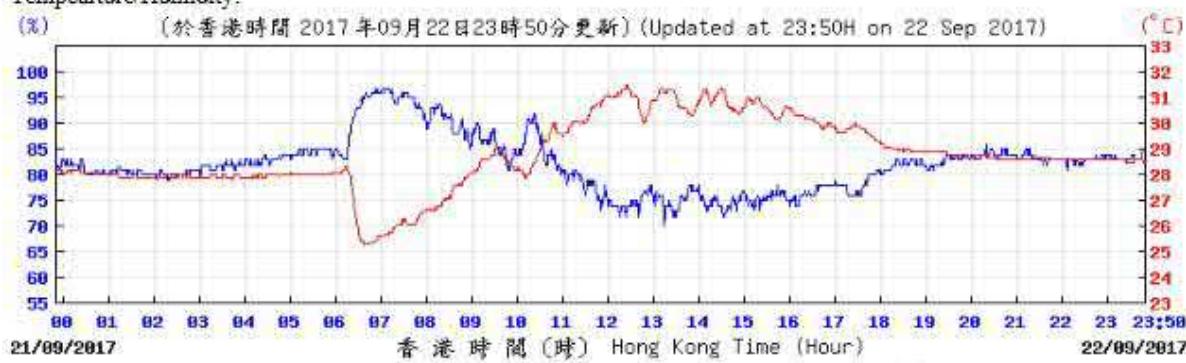
Wind Direction:



Wind Speed:



Tempearture/Humidity:



Pressure:



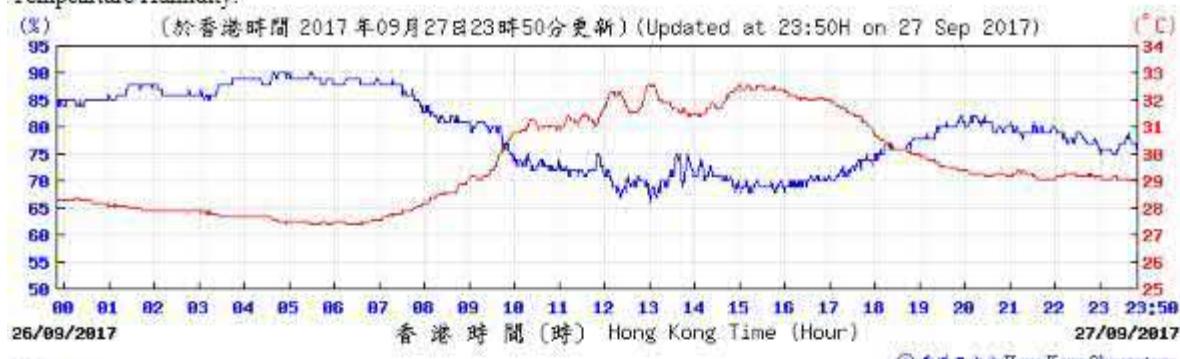
Wind Direction:



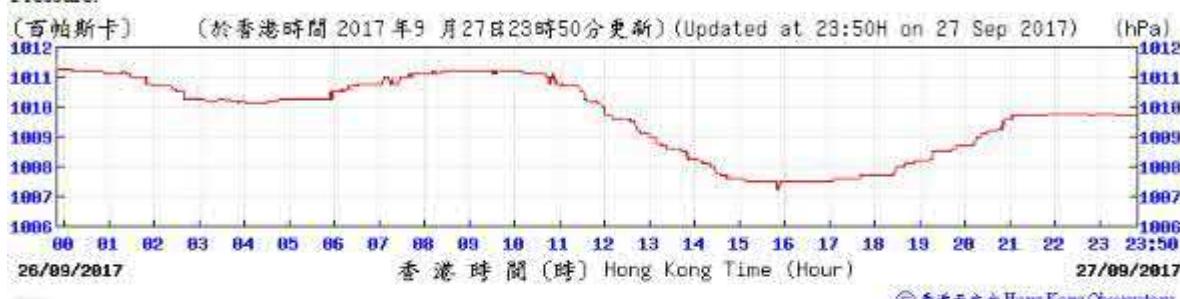
Wind Speed:



Tempearture Humidity:



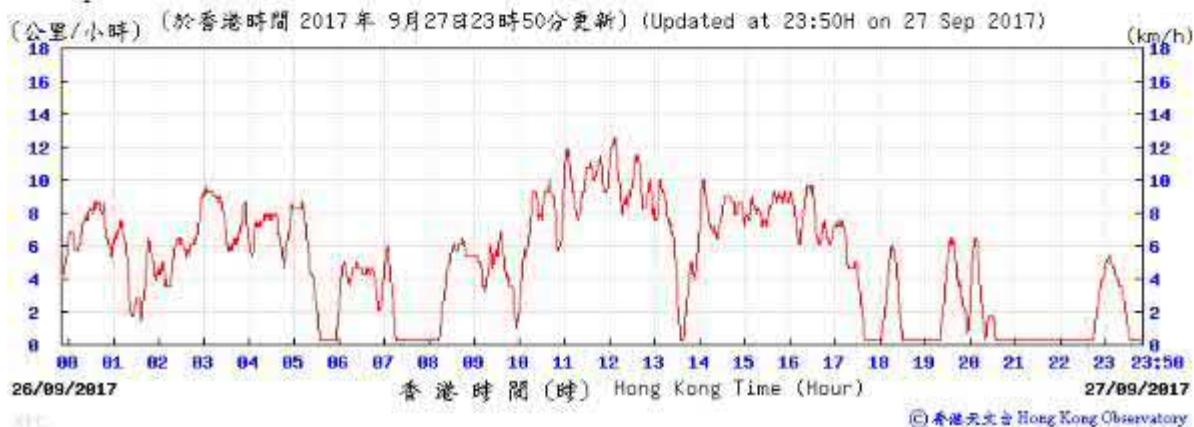
Pressure:



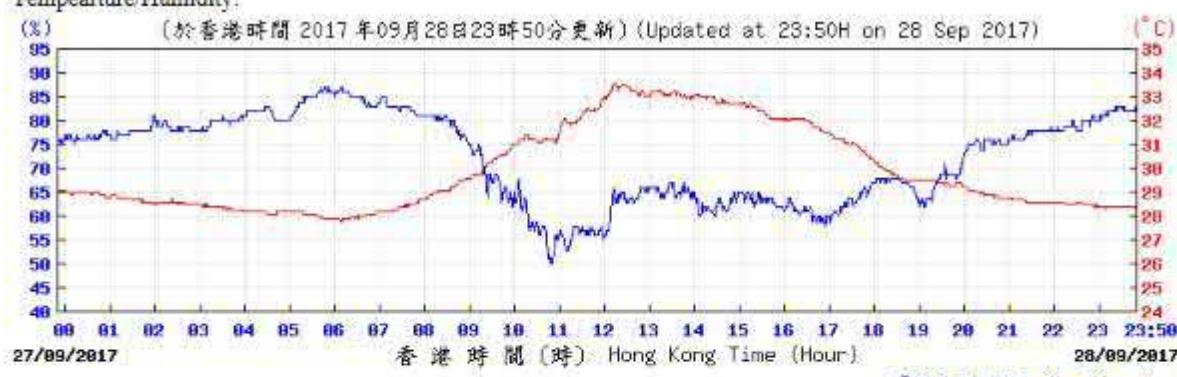
Wind Direction:



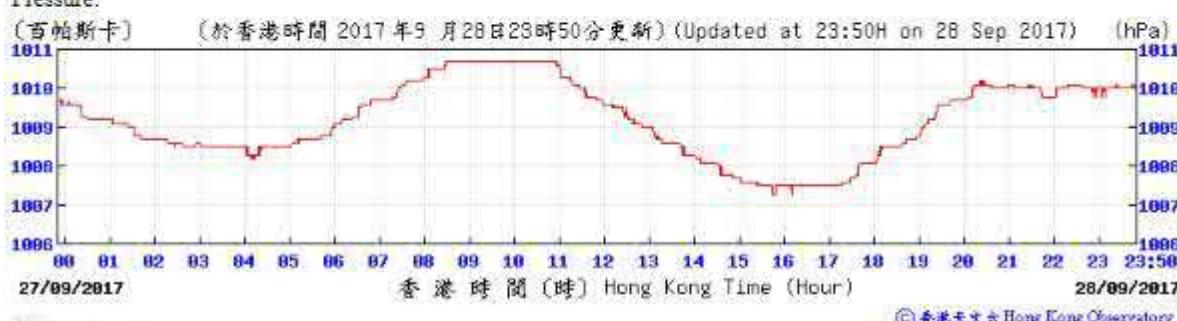
Wind Speed:



Tempearture Humidity:



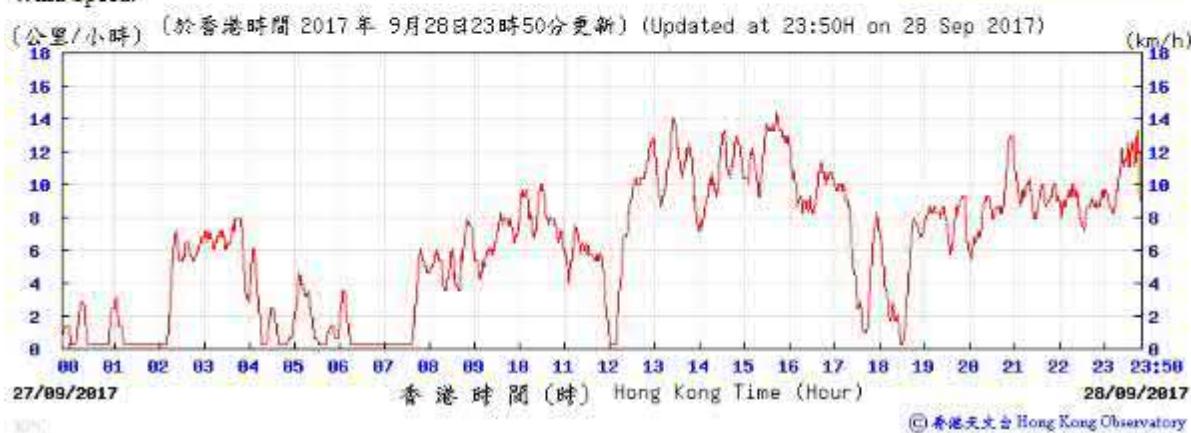
Pressure:



Wind Direction:



Wind Speed:



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 ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2015													
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
2016													
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
2017													
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
June	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	0.8	0.0	183.0	0.0	164.2
Aug	1231.5	0.0	0.0	0.0	867.5	364.0	0.0	50.9	1.2	0.0	263.0	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	350.0	0.0	210.9
Sub-total (2017)	10545.2	0.0	0.0	3168.0	5699.4	1677.8	0.0	758.4	6.8	0.0	1853.0	0.0	1211.7
Total	220939.1	0.0	25232.0	140485.4	53377.6	1844.1	0.0	1675.8	9.1	0.0	2253.1	1.2	2207.1

Note:

-11.01 ton, 653.81 ton and 677.18 ton of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill 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.

Lyric Theatre Complex

Table I-2: Monthly Waste Flow Table for Lyric Theatre Complex

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 ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2016													
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
2017													
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
Sub-total (2017)	44982.6	0.0	0.0	3755.0	41222.3	5.3	0.0	187.1	0.4	0.0	0.0	2.7	80.8
Total	156121.4	0.0	0.0	3755.0	152361.1	5.3	0.0	521.5	0.9	1.5	0.0	10.3	272.4

Note:

-752.7 and 221.99 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 and Tuen Mun Area 38 respectively in the reporting month.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
Air Quality Impact (Construction)			
2.1 & 10.3.1	General Dust Control Measures 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)	✓	Obs
2.1 & 10.3.1	Best Practice For Dust Control 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: <i>Good Site Management</i> <ul style="list-style-type: none">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. <i>Disturbed Parts of the Roads</i> <ul style="list-style-type: none">Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; orUnpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. <i>Exposed Earth</i> <ul style="list-style-type: none">Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or sealing 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. <i>Loading, Unloading or Transfer of Dusty Materials</i> <ul style="list-style-type: none">All dusty materials should be sprayed with water immediately prior to any loading or transfer operation	Obs/ Rem	✓
		✓	✓
		✓	✓
		N/A	N/A
		✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<p>so as to keep the dusty material wet.</p> <p><i>Debris Handling</i></p> <ul style="list-style-type: none"> • Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. • Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. <p><i>Transport of Dusty Materials</i></p> <ul style="list-style-type: none"> • 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. <p><i>Wheel washing</i></p> <ul style="list-style-type: none"> • 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. <p><i>Use of vehicles</i></p> <ul style="list-style-type: none"> • 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. • Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. • 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. <p><i>Site hoarding</i></p> <ul style="list-style-type: none"> • 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. 	✓	✓
2.1 & 10.3.1	<p>Best Practicable Means for Cement Works (Concrete Batching Plant)</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>	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> 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 <p>Emission Limits</p> <ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke <p>Engineering Design/Technical Requirements</p> <ul style="list-style-type: none"> 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 	✓	✓
-	Non-Road Mobile Machinery (NRMM): 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.	Obs	Obs
Noise Impact (Construction)			
3.1 & 10.4.1	Good Site Practice 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: <ul style="list-style-type: none"> only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Obs ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
3.1 & 10.4.1	Adoption of Quieter PME 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 Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
3.1 & 10.4.1	<p>Use of Movable Noise Barriers</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	Rem
3.1 & 10.4.1	<p>Use of Noise Enclosure/ Acoustic Shed</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	N/A
3.1 & 10.4.1	<p>Use of Noise Insulating Fabric</p> <p>Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, piling 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>	✓	✓
3.1 & 10.4.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>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.</p>	N/A	N/A
Water Quality Impact (Construction)			
4.1 & 10.5.1	<p>Construction site runoff and drainage</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"> 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; 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. All drainage facilities and erosion and sediment control structures should be regularly inspected and 	Obs	✓
		✓	✓
		Obs/ Rem	✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<p>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.</p> <ul style="list-style-type: none"> • 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. • 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. • 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. • 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. • 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. • 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. 	✓	✓
	Barging facilities and activities		
	Recommendations for good site practices during operation of the proposed barging point include:		
	<ul style="list-style-type: none"> • 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; • 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 	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> materials or polluted water during loading or transportation; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A N/A	N/A N/A
4.1 & 10.5.1	Sewage effluent from construction workforce 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.	✓	✓
4.1 & 10.5.1	General construction activities <ul style="list-style-type: none"> 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. 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. 	✓ Obs	✓ ✓
Waste Management Implications (Construction)			
6.1 & 10.7.1	Good Site Practices Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> 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 Training of site personnel in proper waste management and chemical handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓ ✓ Obs ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	Waste Reduction Measures Recommendations to achieve waste reduction include: <ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 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 Proper site practices to minimise the potential for damage or contamination of inert C&D materials Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
6.1 & 10.7.1	Inert and Non-inert C&D Materials In order to minimise impacts resulting from collection and transportation of inert C&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&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation. <ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. The C&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. In order to monitor the disposal of inert and non-inert C&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 & 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. 	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
6.1 & 10.7.1	<p>Chemical Waste</p> <ul style="list-style-type: none"> 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. 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. 	Obs	Obs
6.1 & 10.7.1	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	✓	✓
Land Contamination (Construction)			
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"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 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; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	N/A	N/A
		N/A	N/A
		N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
	<ul style="list-style-type: none"> The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; 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; Speed control for trucks carrying contaminated materials should be exercised; 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 Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A
Ecological Impact (Construction)			
No mitigation measure is required.			
Landscape and Visual Impact (Construction)			
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
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
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
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
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
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage	
		M+ Museum	Lyric Theatre Complex
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	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
Table 9.1 (CM9)	Minimize the structure of marine facilities to built on the seabed and foreshore in order to minimize the affected extent to the waterbody	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
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
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	✓	✓
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 - 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 foundation works) to the end of the reporting month and are summarized 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	3	1	0

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

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	5	0	0