

# Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for December 2016

January 2017

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Monthly Environmental Monitoring and Audit (EM&A) Report for December 2016

January 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).

Certified by:

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Brian Tam Environmental Team Leader (ETL) West Kowloon Cultural District Authority

Date

13 Jan 2017

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Date

13 Jan 2017

## Contents

Ex	ecutiv	ve Summary	1
1	Intr	oduction	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	Imp	pact 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	Мо	nitoring 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	Env	vironmental Site Inspection	13
	4.1	Site Inspection	13
		4.1.1 M+ Museum	13
		4.1.2 Lyric Theatre Complex	15
	4.2	Advice on the Solid and Liquid Waste Management Status	16
		4.2.1 M+ Museum	16
		4.2.2 Lyric Theatre Complex	16
	4.3	Status of Environmental Licenses and Permits	17
		4.3.1 M+ Museum	17

	4.4	Recommended Mitigation Measures 4.4.1 M+ Museum	17 17 17 18
5	Cor	pliance with Environmental Permit	19
6		Record on Non-compliance of Action and Limit Levels Record on Environmental Complaints Received	20 20 20 20
7	Fut	ire Key Issues	21
	<ul><li>7.1</li><li>7.2</li><li>7.3</li></ul>	<ul> <li>7.1.1 M+ Museum</li> <li>7.1.2 Lyric Theatre Complex</li> <li>Key Issues for the Coming Month</li> <li>7.2.1 M+ Museum</li> <li>7.2.2 Lyric Theatre Complex</li> </ul>	21 21 21 21 21 21 21 22
8	Cor	clusions and Recommendations	23
	8.1 8.2		23 23
Figu	ure 1	Site Layout Plan and Monitoring Stations	24
Арр	endi	ces	25
Α.	Pro	ect Organisation	26
B.	Ten	tative Construction Programme	27
C.	Acti	on and Limit Levels for Construction Phase	28
D.			ct 29
E.	Mor	itoring Schedule	30
F.	Calibration Certifications 3		31
G.	Graphical Plots of the Monitoring Results		32

363512 | 05/02 | 1 | January 2017 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(14) Monthly EM&A Report for Dec 2016\Rev.1\Monthly EM&A Report for Dec 2016\_v1.docx

Н.	Meteorological Data Extracted from Hong Kong Observatory	33
I.	Waste Flow table	34
J.	Environmental Mitigation Measures – Implementation Status	35
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	36

### **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 December to 31 December 2016.

### **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 2, 9, 16, 23 and 30 December 2016 for  $M_+$  Museum and 7, 14, 21 and 28 December 2016 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 was recorded in the reporting month.

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

One notification of summons regarding M+ Museum construction site made a discharge with exceeded limits of suspended solids on 2 July 2016 was received on 13 December 2016.

No 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 G/F, LGF, B1 and B2 slab;

- Construction of column from B2 to B1, B1 to LGF and LGF to GF;
- Installation of megastruss;
- Construction of DCS structure from B1 to LGF;
- Pile cap and sump pit construction at B2 and ICP;
- Construction of B1 slab at ICP

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

- Predrilling
- Pre-grouting adjacent to Seawall
- Pipe Pile Construction
- Socket-H Pile Construction
- Bored Pile Construction

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.

2

### **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, semitransparent 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-ofhouse 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 December to 31 December 2016. 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 G/F, LGF, B1 and B2 slab;

- Construction of column from B2 to B1, B1 to LGF and LGF to GF;
- Pile cap and sump pit construction at B2 and ICP
- Installation of megastruss
- Construction of B1 slab at ICP

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

- Predrilling
- Pre-grouting adjacent to Seawall
- Pipe Pile Construction
- Socket-H Pile Construction
- Bored Pile Construction

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.

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

 Table 1.1:
 Summary of Impact EM&A Requirements

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

363512 | 05/02 | 1 | January 2017

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
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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-5R (Serial No.: 620402)	

6

<sup>363512 | 05/02 | 1 |</sup> January 2017

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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.</li>

### **Field Monitoring Procedures**

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m<sup>3</sup>/min. The range specified in the EM&A Manual was between 0.6-1.7 m<sup>3</sup>/min.

- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

### **Maintenance and Calibration**

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

### 1-hour TSP Monitoring

### **Field Monitoring**

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

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

### Maintenance and Calibration

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

### Weather Condition

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

### 2.3 Noise

### 2.3.1 Monitoring Parameters, Frequency and Duration

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

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

Time Period	Parameters	Frequency
Daytime on normal weekdays	L <sub>eq</sub> (30 min), L <sub>90</sub> (30 min) & L <sub>10</sub> (30 min)	Once every week
(0700-1900 hours)		

### 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		
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-18 (Serial No.00360030)	Rion NC-73 (Serial No.10997142)

### 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 recalibration or repair of the equipment.
- During the monitoring period, the L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> 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 ConstructionPhase

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	Start Time	1-hour TSP (μg/m³)			Range	Action	Limit
	Date		1st Result	2nd Result	3rd Result	- (µg/m³)	Level (µg/m³)	Level (µg/m³)
	06-Dec-16	10:48	64	61	65			
	12-Dec-16	10:52	81	89	97	_		
AM1	16-Dec-16	8:02	53	51	50	50-97	273.7	500
	22-Dec-16	10:50	64	70	75	_		
	28-Dec-16	10:48	62	66	70	-		
	06-Dec-16	11:02	94	87	90			
	12-Dec-16	11:04	82	91	101	_		
AM2A	16-Dec-16	8:14	69	71	80	56-101	274.2	500
	22-Dec-16	11:02	74	79	80	_		
	28-Dec-16	11:02	56	61	59	-		

### 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 TS	SP monitoring	results	
Monitoring	Monitoring	Start Time	Monitoring	Range	Acti

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (μg/m3)	Range (µg/m3)	Action Level (µg/m3)	Limit Level (µg/m3)
	06-Dec-16	10:50	47			
	12-Dec-16	10:50	44	-	143.6	260
AM1	16-Dec-16	08:00	40	40-47		
	22-Dec-16	10:48	41			
	28-Dec-16	10:50	47			
	06-Dec-16	11:00	71			
	12-Dec-16	11:02	92	-		
AM2A	16-Dec-16	08:12	66	56-92	151.1	260
	22-Dec-16	11:00	76	-		
	28-Dec-16	11:00	56	-		

363512 | 05/02 | 1 | January 2017 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(14) Monthly EM&A Report for Dec 2016\Rev.1\Monthly EM&A Report for Dec 2016\_v1.docx 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**.

Monitoring Date	Start Time	End Time	Leq (30 mins), dB(A)	Limit Level for Leq (dB(A))
06-Dec-16	14:00	14:30	69.0	
12-Dec-16	14:00	14:30	67.6	76
22-Dec-16	15:40	16:10	69.0	- 75
28-Dec-16	14:00	14:30	68.1	-

Table 3.3:	Summary of noise monitorin	g results during normal weekdays
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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 4, 11 and 18 December 2016. In accordance with the EM&A Manual, additional monitoring was carried out during the restricted hours on 4, 11 and 18 December 2016. The  $L_{eq}$  (5 mins) is in the range of 68.7-73.6 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** and **Table 4.4**.

### 3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 9 and 23 December 2016 for M+ Museum and 7 and 21 December 2016 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 2, 9, 16, 23 and 30 December 2016. The joint site inspection with IEC, ET, ER and Contractor was held on 9 December 2016. 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**.

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
17 Nov 2016	Waste management	The contractor was reminded to improve the access to chemical store near CSO.	The chemical store is not in use now and no chemical waste was stored inside.	2 Dec 2016
24 Nov 2016	Water quality	Effluent quality at ICP sampling point and wetseps at M+ was checked. They were all visually clear when compared to standard solution and within proper pH range. The contractor was reminded to enhance maintenance and clean up at wetseps as very fine suspended particles were found in wetsep systems.	The contractor has cleaned the wetsep systems and the wetsep systems were observed with clear treated wastewater.	2 Dec 2016
2 Dec 2016	Water quality	The contractor was reminded to improve the access to wetsep no.1 for water sampling and desludge.	The contractor has enhanced the access to the wetsep no. 1.	14 Dec 2016
2 Dec 2016	Waste management	Oil stain and suspected chemical leakage was observed on the ground at B1 and gate 1. The contractor was reminded to remove them and treat it as chemical waste.	The contractor has cleared the oil stain and suspected chemical leakage on the ground at B1 and gate 1	5 Dec 2016
2 Dec 2016	Air quality/ Waste management	Muddy trails were found in gate 1. The contractor was reminded to ensure all wheels of vehicles are washed before leaving the site.	The contractor has provided wheel- washing for all vehicles before leaving the site.	9 Dec 2016
2 Dec 2016	Waste management	Refuse was observed near the seafront. The contractor was reminded to remove the refuse off site.	The contractor has removed the refuse near the seafront.	7 Dec 2016
2 Dec 2016	Waste management	Chemical containers near gate 3, DCS and seafront were observed without drip trays. The chemical drum near seafront was observed not in good condition. The contractor was reminded to provide drip trays for all chemical containers and remove the chemical drum off site.	The contractor has provided drip tray, and covered the chemical drum and removed the chemical containers without drip tray.	9 Dec 2016
2 Dec 2016	Water quality	Effluent quality at ICP samping points and wetseps at M+ was checked. They were all visually clear when comparing to	N/A	N/A

363512 | 05/02 | 1 | January 2017

<sup>\</sup>motify Edit (1) whether the second s

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		standard solution and within proper pH range.		
2 Dec 2016	Others	The contractor was reminded to provide proper protection (provide fencing) to trees near seafront until the tree survey report is issued.	The contractor has provided tree protection for trees near seafront.	7 Dec 2016
9 Dec 2016	Air quality	The contractor was reminded to enhance water spraying in site to reduce dust impact.	The contractor has enhanced water spraying in site.	14 Dec 2016
9 Dec 2016	Air quality	Stockpile near DCS was found uncovered. The contractor was reminded to well cover the stockpile to reduce dust impact.	The contractor has covered the stockpile near DCS.	14 Dec 2016
9 Dec 2016	Waste management	Oil stain was found on the ground near ICP. The contractor was reminded to clear the oil stain and treat it as chemical waste.	The contractor has removed the oil stain on the ground near ICP.	14 Dec 2016
9 Dec 2016	Water quality	The wastewater treatment at wetsep no. 2 was found insufficient. The contractor was reminded to enhance wastewater treatment to ensure compliance with WPCO requirement.	The wastewater treatment at wetsep no. 2 was found sufficient.	14 Dec 2016
9 Dec 2016	Air quality/ Waste management	Dump truck was observed uncovered and over-filled when leaving the site. The contractor was reminded to ensure all dump trucks are well-covered and not over-filled when leaving the site.	Dump truck was covered and not over-filled when leaving the site.	14 Dec 2016
9 Dec 2016	Water quality	Effluent discharge quality at ICP and M+ was checked. They were all visually clear when comparing to standard solution and within proper pH range.	N/A	N/A
16 Dec 2016	Waste management	Chemical containers and drums were observed without drip trays in serveral area in the site. The contractor was reminded to remove them if not in use or provide drip tray.	The contractor has removed the chemical containers/ drums previously observed without drip trays in various area of the site.	23 Dec 2016
16 Dec 2016	Waste management	The contractor was reminded to remove the construction waste accumulated in B1 and ICP. Also, the contractor was reminded to improve the house-keeping at B2 and remove the construction waste.	The contractor has removed the construction waste at B1, ICP and B2.	22 Dec 2016
16 Dec 2016	Water quality	Algae was observed accumulated in wetseps in M+. The contractor was reminded to remove algae more frequently to ensure the treatment performance of the wetseps.	The contractor has arranged cleaning to remove algae in wetseps in M+.	22 Dec 2016
16 Dec 2016	Water quality	Effluent quality at ICP sampling point and M+ wetseps was checked. It was found marginally acceptable and was within proper pH range. The contractor was reminded to review and adjust the quantity of runoff treated in wetseps of ICP to ensure sufficient treatment for all wastewater before discharging to comply with WPCO.	The contractor has rearranged the quantity of runoff treated in wetseps in ICP. The treated wastewater was observed clear.	23 Dec 2016
23 Dec 2016	Waste	Oil was observed in the drip tray	The contractor has cleared the drip	20 Doc 2016

363512 | 05/02 | 1 | January 2017 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(14) Monthly EM&A Report for Dec 2016\Rev.1\Monthly EM&A Report for Dec 2016\_v1.docx

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		reminded to clear the drip tray more frequently.		
23 Dec 2016	Water quality	Effluent quality at ICP sampling point and M+ wetseps was checked. They were all observed clear when comparing to standard solution and within proper pH range.	N/.A	N/A
30 Dec 2016	Waste management	Construction waste was observed in B2. The contractor was reminded to remove the construction waste regularly.	Follow-up status will be provided in the next reporting month	On-going
30 Dec 2016	Air quality	Stockpile was observed uncovered in B2. The contractor was reminded to well cover the stockpile to reduce dust impact.	Follow-up status will be provided in the next reporting month	On-going
30 Dec 2016	Water quality	Effluent quality at ICP sampling point and M+ wetseps was checked. They were visually clear when comparing to standard solution and within proper pH range.	N/A	N/A

#### 4.1.2 Lyric Theatre Complex

Construction phase weekly site inspections were carried out on 7, 14, 21 and 28 December 2016. The joint site inspection with IEC, ET, ER and Contractor was held on 21 December 2016. 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.

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
30 Nov 2016	Air quality	Haul road was observed a little bit dry at car park. The contractor was reminded to increase water spraying frequency.	Water spraying to the haul road was conducted regularly	2 Dec 2016
30 Nov 2016	Waste management	The drip tray of air-compressor was observed full of mixture of water, oil and algae. The contractor was reminded to pump out the mixture and treat as chemical waste.	Mixture in drip tray of air compressor was cleared and treated as chemical waste.	2 Dec 2016
7 Dec 2016	Water quality	Low PH value was observed at the wet sep far from site entrance. The contractor was reminded to increase the PH value to an acceptable PH value (i.e. 6-9 PH)	Wastewater at the wet sep was neutralized and pH value resumed to normal range (6.71 pH).	8 Dec 2016
7 Dec 2016	Air quality	Haul road was observed dry at car park. The contractor was reminded to increase water spraying frequency.	Water spraying at car park was conducted regularly.	8 Dec 2016
7 Dec 2016	Waste management	Area L02 was observed oil leakage on the ground. The contractor was reminded to stop the leakage, remove the oil and treated as chemical waste.	Chemical leakage was cleaned up already and all chemicals was placed inside drip tray.	8 Dec 2016
14 Dec 2016	Water quality	Low PH value was observed at the wet sep far from site entrance. The contractor was reminded to monitor the PH value	The Contractor cleaned the pH server at Wetsep. After cleaning, the pH value observed was within the acceptable range.	15 Dec 2016

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		to an acceptable PH value (i.e. 6- 9 PH).		
21 Dec 2016	Waste management	The Contractor is reminded to place all chemical waste generated in the chemical waste storage area.	The chemical waste has been placed properly in the chemical waste storage area.	24 Dec 2016
21 Dec 2016	Water quality	The Contractor is reminded to treat all site effluent with wastewater treatment systems and ensure compliance with WPCO discharge licence.	All site effluent was properly treated.	28 Dec 2016
21 Dec 2016	Waste management	Some chemical containers were not properly placed in drip tray. The Contractor should ensure that sufficient drip trays are provided.	The chemicals have been removed from ground and placed inside drip tray.	24 Dec 2016
28 Dec 2016	Air quality	The Contractor was reminded to replace the NRMM label of the generator near seafront with colour one.	Follow-up status will be provided in the next reporting month	On-going
28 Dec 2016	Water quality	Turbid treated effluent was observed at wetsep no. 1. The Contractor was reminded to check the performance of the wetsep and desludge more frequently.	Follow-up status will be provided in the next reporting month	On-going

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

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

### 4.2.1 M+ Museum

As advised by the Contractor, 16.8 ton and 109.98 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively, while 89.0 ton of general refuse was disposed of at SENT landfill. 48.3 ton of metals, 0.6 ton of paper/cardboard packaging, 0 ton of plastic and 70.0 ton of timber were collected by recycling contractors in the reporting month. 0 ton of inert C&D materials was reused on site. 736.0 ton of inert C&D materials were reused in other projects and 37.0 ton of inert C&D materials were disposed to sorting facility. 0 ton 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, 3,573.98 ton and 8,913.61 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively, while 9.02 ton of general refuse was disposed of at SENT landfill. 13.85 ton of metals, 0 ton of paper/cardboard packaging, 0 ton of plastic and 0 ton of timber were collected by recycling contractors in the reporting month. 0 ton of inert C&D materials was reused on site. 0 ton of inert C&D materials was reused in other projects. 1.26 ton of chemical wastes 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	Valid Period		Status	Remarks	
No. – / Notification / Reference No.	From	From To			
Chemical Waste Produ	cer Registration				
5213-217-H2913-45	05-Nov-15		Valid		
Billing Account Constr	uction Waste Dispos	al			
7023393	13-Oct-15		Account Active		
Construction Noise Per	rmit				
GW-RE1058-16	4-Nov-16	3-May-17	Valid		
Wastewater Discharge	License				
WT00023633-2016	4-Mar-16	31-Mar-21	Valid		
Notification under Air F	Pollution Control (Co	nstruction Dust) Regu	lation		
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 Status of Environmental Submissions, Licenses and Permits for Lyric Theatre

Permit / License	Valid	Period	Status	Remarks
No. / Notification / Reference No.	From	То	_	
Chemical Waste Produ	cer Registration			
5213-217-G2347-39	17-Feb-16		Valid	
Billing Account Constr	uction Waste Dispos	al		
7024189	25-Jan-16		Account Active	
Construction Noise Per	rmit			
GW-RE1113-16	23-Nov-16	20-May-17	Valid	
Wastewater Discharge	License			
WT00023648-2016	9-Mar-16	31-Mar-21	Valid	
Notification under Air F	Pollution Control (Co	nstruction Dust) Regu	Ilation	
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.

- All chemical drum/ containers stored on site should be provided with drip trays.
- Chemical waste in drip trays should be frequently removed.
- Construction waste generated on site should be regularly removed.
- Good housekeeping of site should be maintained.
- Leakage of oil/ chemical waste on ground should be removed.

#### Air Quality

- Maintain high standard of housekeeping to prevent emission of fugitive dust.
- Dusty materials stored on site should be well covered to reduce dust impact.
- Enhance water spraying for haul roads to reduce dust impact.
- Conduct wheel-washing for all vehicles before leaving the site.
- All vehicles carrying dusty materials must be well covered and not over-filled before leaving the site.

### Water Quality

- Wetsep units should be regularly checked to ensure proper function and adequate capacity of the system to treat wastewater or runoff before discharge.
- All wastewater or site runoff must be treated in wastewater treatment facilities before discharge.
- Frequent cleaning should be maintained to remove algae in wetsep units
- Maintain access to wetsep units for ease of maintenance and water sampling.

#### Others

- Provide proper protection to all trees within the site area.

### 4.4.2 Lyric Theatre Complex

#### **Chemical and Waste Management**

- All chemical drum/ containers stored on site should be provided with drip trays.
- Leakage of oil/ chemical waste on ground should be removed.
- Chemical waste should be properly stored in designated chemical waste storage area.

#### **Air Quality**

- Enhance water spraying for haul roads to reduce dust impact.
- Proper NRMM label should be provided to the plants.

#### Water Quality

 Wetsep units should be regularly checked to ensure proper function to treat wastewater or runoff before discharge.

### 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 November 2016	14 December 2016

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

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

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

### 6.2 Record on Environmental Complaints Received

No environmental complaint was received this month. The cumulative statistics on complaints were provided in **Appendix K**.

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

One notification of summons regarding M+ Museum construction site made a discharge on 2 July 2016 of which suspended solids exceeded the limits stated in the table under Specific Condition B1 of the license numbered WT00023633-2016 granted on 4 April 2016 under the Water Pollution Control Ordinance was issued to the contractor, Hsin Chong Construction Company Limited on 13 December 2016. The Water Pollution Control Ordinance was breached at ICP, located adjacent to the M+ Museum construction site.

According to the Contractor, a Senior Environmental Protection Inspector collected legal sample at the ICP's discharge point on 2 July 2016. EPD also inspected the waste water treatment system of ICP and observed that all effluent has been screened by sedimentation tanks and treated by wetseps prior to discharging off site. A pink form was issued after the inspection. The wastewater treatment facilities had been regularly checked to ensure the performance of the system for treating all the site runoff. The Contractor has conducted daily water sampling to check the quality of the effluent since then. ET has also inspected all the effluent quality during weekly site inspection since 8 July 2016 and the details of the checking are presented in **Table 4.1**. Any observations regarding unsatisfactory performance of the wetseps have been recorded and subsequently followed up by the Contractor.

Follow-up status will be provided in the next reporting month.

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

### 7 Future Key Issues

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

### 7.1.1 M+ Museum

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

- Construction of G/F, LGF, B1 and B2 slab;
- Construction of column from B2 to B1, B1 to LGF and LGF to GF;
- Installation of megastruss;
- Construction of DCS structure from B1 to LGF;
- Pile cap and sump pit construction at B2 and ICP;
- Construction of B1 slab at ICP

### 7.1.2 Lyric Theatre Complex

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

- Predrilling
- Pre-grouting adjacent to Seawall
- Pipe Pile Construction
- Socket-H Pile Construction
- Bored Pile Construction

### 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.

One notification of summons regarding M+ Museum construction site made a discharge with exceeded limits of suspended solids on 2 July 2016 was received on 13 December 2016.

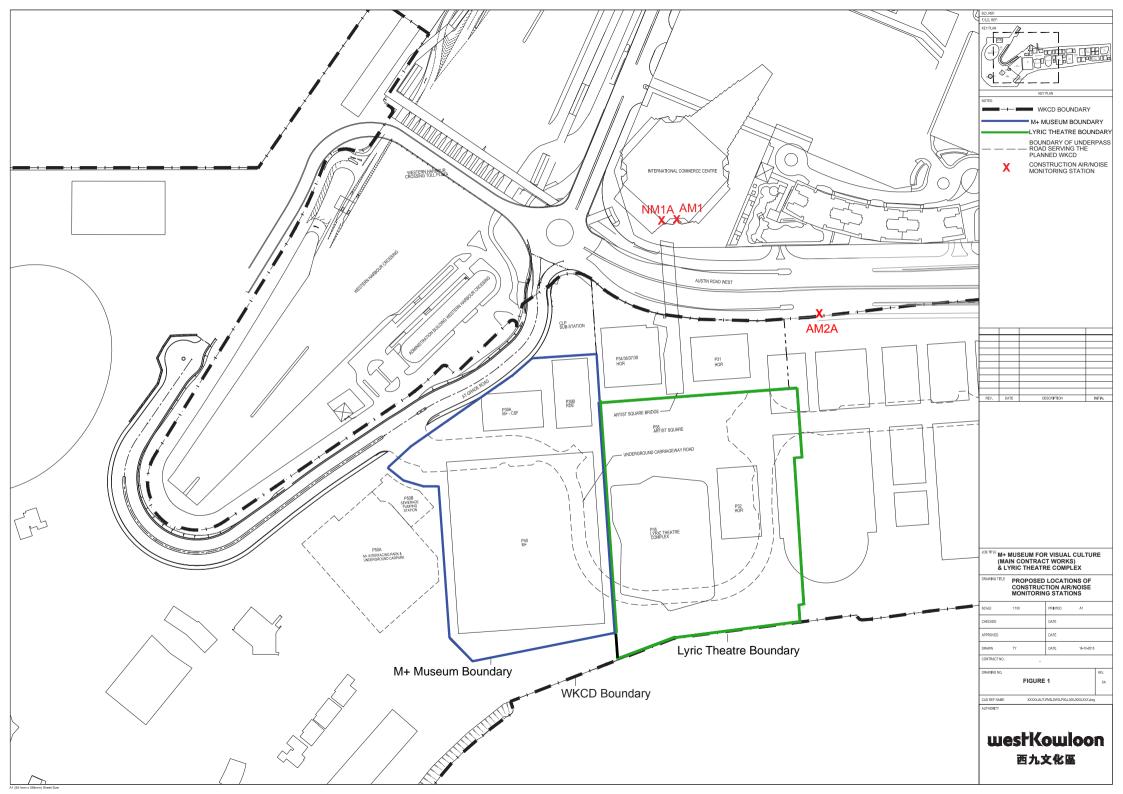
No environmental complaints and no successful prosecution were received during the reporting month.

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.

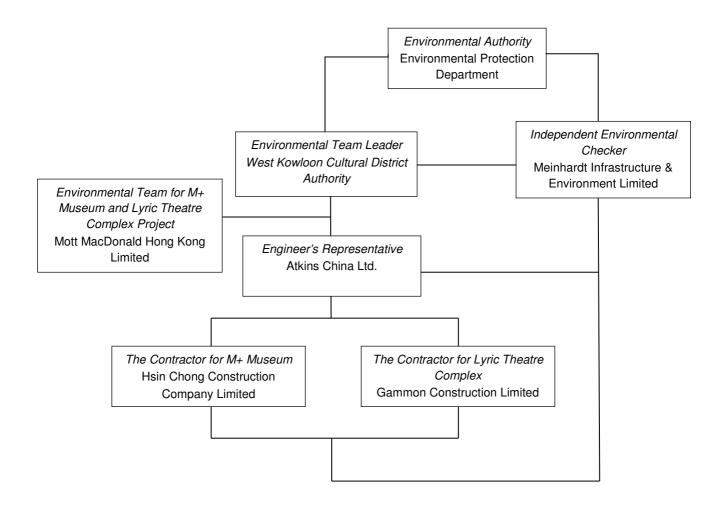
# Figure 1 Site Layout Plan and Monitoring Stations



# Appendices

Α.	Project Organisation	26
B.	Tentative Construction Programme	27
C.	Action and Limit Levels for Construction Phase	28
D.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact	29
E.	Monitoring Schedule	30
F.	Calibration Certifications	31
G.	Graphical Plots of the Monitoring Results	32
Н.	Meteorological Data Extracted from Hong Kong Observatory	33
I.	Waste Flow table	34
J.	Environmental Mitigation Measures – Implementation Status	35
K.	Cumulative Statistics on Complaints, Notifications of Summons and Successful	
	Prosecutions	36

# A. Project Organisation



### Table A-1: Contact information

Company Name	Role	Name	Telephone
Atkins China Ltd.	Senior Resident Engineer	Mr. Alfred Lee	5401 7289
Meinhardt Infrastructure & Environment Limited	IEC	Mr. Fredrick Leong	2859 1739
Hsin Chong Construction Company Limited	Environmental Manager	Mr. Leo Chow	9266 6855
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

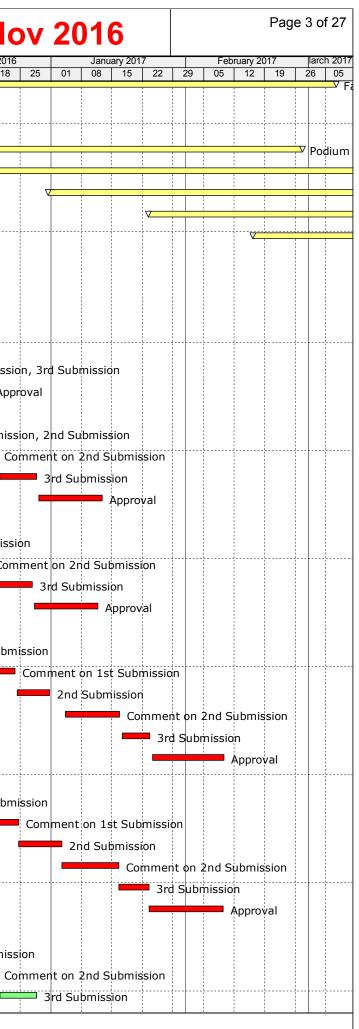
## **B. Tentative Construction Programme**

# M+ Museum

Prepared on 0	<sup>7-Dec-16</sup> (3MRP-14) Thre	<b>e</b>	Mont	ths R	lling	g Prog	gra	mr	ne	Statu	JS	at 3	60 No	v 2	016			Pa	age 1 of 27
Activity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Variance	Current Float	November 30 06 13	2016	27 04	December 2016	25 01	January 2		Fe 29 05	bruary 2017	larch 2017 9   26   05
(3MRP-1	14) Three Months Rolling Programme		tus at :	30 Nov	2016												20 00		
	t Key Dates & Milestones																		
Contract																			
CP02	Contract Period (1218 days)	1216	26-Sep-15	25-Jan-19	26-Sep-15 A	19-May-19	36%	-113	-113							_			
Schedule	e of Milesones				•														
	ntre A - Preliminaries and General Requirements																		
MSA.08	Compliance Review to the CA's satisfaction on Project Time & C			31-Dec-16		31-Dec-16	0%	0	6					🕏 Cor	npliance F	eview to،	the CA's	atisfactio	on on Project
Cost Cer	ntre B - M+																		
MSB.05	Complete all Columns, Structural Cores and other work necessa	0		30-Sep-16		16-Dec-16	0%	-65	620				Complete	ete all Co	olumns, St	tructural	Cores and	other wo	rk necessary
MSB.03	Complete Excavation to 100% of Overall Volume of Bulk Excavation	0		31-Mar-17		22-Dec-16	0%	79	616				•					_	
Cost Cer	ntre C - Public Works and Tunnel Protection Wor	ks																	
MSC.04i	Complete of all work necessary for commencement of erection	0		30-Sep-16		31-Dec-16	0%	-3	26					<ul> <li>Cor</li> </ul>	nplete of a	all work n	ecessary	or comm	encement of
MSC.04ii	Complete all Columns, Structural Cores and other work necessa	0		31-Jul-16		31-Dec-16	0%	-5	26					<ul> <li>Cor</li> </ul>	nplete all (	Columns,	Structura	I Cores ar	nd other wor
Interface	Dates																		
Access D																			
AD1530	M70 - Arts Pavilion Area on M+ side of M+ / Park Interface (t.b	0	29-Jun-16		16-Nov-16 A		100%	-140		* N	170 - Ar	ts Pavilio	n Area on M+	side of N	1+ / Park	Interface	(t.b.a.),	470 - Art	s Pavilion Are
AD1400	M43 - At-grade Road Footpath at ICP / SPS Entrance Portal (fro	0	15-Feb-17		06-Jan-17		0%	40	720						<u> </u>			♦ M43	- At-grade R
Vacation	Date																		
VD1070	M08 - Park Phase 3 Part at Waterfront (15Jun2016)	0		15-Jun-16		01-Dec-16	0%	-169	785			♦ мов	- Park Phase	3 Part at	Waterfron	ıt (15Jun	2016), M	)8 - Park	Phase 3 Part
Interface	Schedule (Refer to Interface Schedule - App	bendi	x D1 20-	Nov-201	5)														
	eatre Complex and Extended Basement (Lyric)																		
Along Inte	erface North of AEL																		
IF1020	Complete excavation north of AEL for B2/F slab and vacate M12	0		23-Sep-16		30-Nov-16	0%	-67	-2			Comp	lete excavatio	n north d	of AEL for I	B2/F slab	and vaca	te M12, C	omplete exc
IF1060	Take possession of M12 for external wall construction	0	29-Dec-16		25-Jan-17		0%	-27	-58	-				<b>◇</b>		◆ Та	ke posses	sion of M	12 for extern
Along Inte	erface South of AEL																		
Grid 6 &	12 Area																		
IF1036	Complete PC109 & Basement Road Wall between PC109 & 116	0		24-May-16		19-Dec-16	0%	-209	767				◆ Com	plete PC	109 & Bas	ement R	oad Wall L	etween P	C109 & 116
IF1039	Complete Basement Road Wall between PC96, 103 & 105 to G/	0		28-May-16		20-Jan-17	0%	-237	735							Comp!	ete Baser	nent Roac	d Wall betwee
IF1034	Complete External Wall from B1/F to G/F Level between Grid 6	0		27-Jun-16		20-Jan-17	0%	-207	735							Comp!	lete Exter	nal Wall fr	rom B1/F to (
PIW Phas	se 1		,		,														
Civil & St	ructual Interface with PIW At-Grade Road																		
M+ North	West Boundary																		
IF2095	Submit Hoarding Design for BD Approval	30	01-Jun-16	30-Jun-16	30-Nov-16	06-Jan-17	0%	-155	431						<sup>I</sup> IF2095,	Submit I	loarding [	esign for	BD Approval
Interface	Car Park Utilities Works								,										
IF2180	Construct U/G utilities connections from footway to ICP/SPS	70	24-Mar-16	05-Jul-16	06-Jun-16 A	23-Dec-16	50%	-142	-15				I	F2180, (	Construct	U/G utilit	ies conne	tions fror	m footway to
IF2190	Complete pavement interface with At-grade road	10	08-Jul-16	22-Jul-16	24-Dec-16	06-Jan-17	0%	-138	-15						IF2190,	Complete	e paveme	nt interfac	ce with At-gr
IF2200	Remove hoarding along footway & vacate footway	5	23-Jul-16	29-Jul-16	07-Jan-17	12-Jan-17	0%	-137	-15						IF2	200, Ren	nove hoar	ding along	g footway & v
Interface	Car Park Entrance Portal																		
IF2210	Remove hoarding within M26 to make way for final pavement	5	15-Feb-17	20-Feb-17	06-Jan-17	11-Jan-17	0%	31	581					_				<u> </u>	IF2210, Rem
♦ A Baseline Mil	lestone V S		Cultural Dis	trict Autho	srits/										CMWP-	12			
Primary Bas					•		<b></b>	_	F	HSIN新昌 CHONG	Da 08-Ai		P-10) 3-Months I	Revisior Rolling Pro		31 July 2010			Approved au / Chris Chau
<ul> <li>Milestone</li> <li>Non-Critical</li> </ul>	(3MRP-14) Three	IVIC	ontns		ing Pr	ogran	nme	е			08-Se	p-16 (3MF	P-11) 3-Months F	Rolling Pro	og Status at 3	31 Aug 2016	i Jojo	Ricky La	au / Chris Chau
Critical Bar	Status				-	-							P-12) 3-Months I P-13) 3-Months I						au / Chris Chau au / Chris Chau
Actual Work	Jaius	αι	JUIN										P-14) 3-Months I						

ared on 07-	<b>(3MRP-14) Thre</b>	e	Mont	hs R	olling	J Pro <u>c</u>	gra	mr	ne	Statu	s at 30 Nov 2016
ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance		November 201 30 06 13	6         December 2016         January 2017         February 2017           20         27         04         11         18         25         01         08         15         22         29         05         12         19
IF2030	Take possession of the completed At-grade road pavement in M	0	15-Feb-17		06-Jan-17		0%	40	720		♦ Take pos
IF2220	Complete pavements, road furniture & road marking with the A	20	21-Feb-17	15-Mar-17	12-Jan-17	07-Feb-17	0%	31	581		
Sewage Pi	ump Station										
IF2290	Construction of SPS Structure incl Building Services, ABWF and	361	11-Feb-16	22-Jun-17	20-May-16	03-Oct-17	13%	-67	-65		
Drainage li	nterface with PIW				Λ						
IF2310	PIW take possession of M26, M04 (by others)	0	12-Nov-16		30-Nov-16		0%	-18	699		PIW take possession of M26, M04 (by others), PIW take possession of
F2320	Construct the DN150 storm drain within At-grade Road (M26)	72	12-Nov-16	10-Feb-17	30-Nov-16	28-Feb-17	0%	-15	563		
Vater Mair	n Interface with PIW										
F2370	Take possession of At-grade road within Portion M45	0	01-Jun-16		30-Nov-16		0%	-182	747		Take possession of At-grade road within Portion M45, Take possession
F2380	Remove hoarding fixed to the sheet pile	5	03-Jun-16	10-Jun-16	30-Nov-16	05-Dec-16	0%	-147	604		IF2380, Remove hoarding fixed to the sheet pile
F2390	Install hoarding on road-side edge of footway (500mm clearand	12	11-Jun-16	27-Jun-16	06-Dec-16	19-Dec-16	0%	-145	604		IF2390, Install hoarding on road-side edge of footway (
F2400	Construct two DN150 DI fresh water, and one DN100 DI salt w	12	28-Jun-16	18-Jul-16	20-Dec-16	05-Jan-17	0%	-141	604	1	IF2400, Construct two DN150 DI fresh w
-2410	Pressure test, Remove blank flange and make final connections	1	19-Jul-16	19-Jul-16	06-Jan-17	06-Jan-17	0%	-141	604		<sup>I</sup> IF2410, Pressure test, Remove blank fla
-2420	Backfill pipes to the footway formation levels	1	21-Jul-16	21-Jul-16		07-Jan-17	0%	-140	604		IF2420, Backfill pipes to the footway for
F2430	Complete WSD works for At-grade road (8Jul17)	0		21-Jul-16		07-Jan-17	0%	-170	748		Complete WSD works for At-grade road
owngas li	nterface with PIW										
-2440	Take possession of At-grade road within Portion M44	0	01-Jun-16		30-Nov-16		0%	-182	621		Take possession of At-grade road within Portion M44, Take possession
-2450	Trench excavation for gas pipe installation	5		10-Jun-16	30-Nov-16	05-Dec-16	0%	-147			IF2450, Trench excavation for gas pipe installation
F2460	Construct portion of M+ & RDE building gas main (by Towngas)				06-Dec-16	19-May-17	0%	-123			
	erface with PIW	150	11 5411 10	15 800 10	00 000 10	19 110 17	0 /0	125	155		
F2230	Take possession of the completed At-grade road pavement in M	0	01-Jun-16		30-Nov-16		0%	-182	618		Take possession of the completed At-grade road pavement in M44, Tal
F2240	Excavate trenches for laying 11kV & 132kV cable by CLP			22-Son-16	30-Nov-16	01-Mar-17	0%				
		/5	05-5011-10	22-3ep-10	50-1100-10	01-Mai-17	0 70	-129	497	_	
F2500	Take possession of the completed At-grade road pavement in M	0	01-Jun-16		30-Nov-16		0%	-182	200		Take possession of the completed At-grade road pavement in M44, Tal
	Excavate trenches for laying telecom ducts	 г		10 Jun 10		05 Dec 16					IF2510, Excavate trenches for laying telecom ducts
F2510	, , ,	5			30-Nov-16	05-Dec-16	0%	-147			In 2010, Excavate trenches for laying telecoin ducts
F2520	Lay ducts & leave connecting ends for PIW drawpit consstructio	/2	11-JUN-16	27-Sep-16	06-Dec-16	06-Mar-17	0%	-129	226		
	nterface with PIW	50	20 D 15	20 5 4 10		22 D 16	0.001	2.42	615		
4010	Construct the DN375 sewer drain within Austin Road West and		29-Dec-15		05-Dec-15 A			-243		-	IF4010, Construct the DN375 sewer drain within Au
4020	Vacate L08, L19 to Lyric foundation contractor	0		29-Feb-16		23-Dec-16	0%	-298	763		Vacate L08, L19 to Lyric foundation contractor, Vacate L08, L19 to L98, L198, L19
	ntake & Discharge Pipes Interface with PIW										
4110	Install two DN600 Seawater Intake mains, DN100 Chorinationa	120	02-Sep-16	09-Feb-17	22-Aug-16 A	28-Feb-17	50%	-16	443		
	Facade Programme										
	Milestone Dates	i.	Ń		í í		1	ŕ	1		
IS.1010	Start of Embeds Installation at M+ Podium	0			19-Dec-16		0%		768	_	<ul> <li>Start of Embeds Installation at M+ Podium, 19-Dec-16</li> </ul>
IS.1020	Start Bulk Production	0			10-Feb-17		0%		715		◆ Start Bulk Pro
	ruction, Procurements & Bulk Production										
IM.0050	Facade - Material Submission	205			22-Oct-15 A		80%		-48		Facade - Material Submission, Facade - Materi
JM.0060	Facade - Visual Mock-Up	231			27-Oct-15 A		70%		-4		Facade - Visual Mo
JM.0020	Facade - Shop Drawings	145			24-Mar-16 A	10-Feb-17	40%		37		Facade - Sho
JM.0030	Facade - Embed BD Submission	204			05-Apr-16 A	28-Mar-17	50%		-44		
JM.0040	Facade - BD Submission	180			30-Sep-16 A	08-Aug-17	15%		132		
JM.0070	Facade - Production Mock-Up	207			30-Nov-16	14-Aug-17	0%		-20		
JM.0080	Facade - Performance Test Mock-Up	246			30-Nov-16	28-Sep-17	0%		54	1	
UM.0090	Facade - Bulk Production & Fabrication	411			30-Nov-16	25-Apr-18	0%		-59	1	

ity ID	Activity Name	Ori. BaseLine		Forcast / Actual	%	Finish Current		ember 2016			ember 2016
SUM.0025	Facade Door - Shop Drawings	Dur. 77	Finish Start 30-Nov-16	Finish 07-Mar-17	Compl.	√ariance Float 3 -83	0 06	13 20	27	04	11 18
M+ RC Str											
M+ Podium											
SUM.0100	Podium - B1/Floor Slab Structure	215	15-Mar-16 A	27-Feb-17	50%	564					
SUM.0110	Podium - Grd/Flr Slab Structure	268	12-Oct-16 A	13-Oct-17	10%	18					
SUM.0120	Podium - 1st/Flr Slab Structure	243	31-Dec-16	26-Oct-17	0%	367					
SUM.0130	Podium - 1M/Flr Slab Structure	225	23-Jan-17	26-Oct-17	0%	-52					
SUM.0140	Podium - 2nd/Flr Slab Structure	220	16-Feb-17	11-Nov-17	0%	3					
Prelimina	ries										
	ruction - Design & Procurement	e									
	acade for M+ Podium (By Permaste										
	p Drawing Submission										
Tower Faca									+		
DS.2004.10		10	25-Nov-16 A	05-Dec-16	40%	-8		-	÷	■ 3rd S	Submissi
DS.2004.12	Approval	11	06-Dec-16	17-Dec-16	0%	-8				-	- App
Podium Fa	cade										
DS.2004.18		6	26-Nov-16 A	06-Dec-16	30%	-40				🗖 2nd	l Submis
DS.2004.20	Comment on 2nd Submission	11	07-Dec-16	19-Dec-16	0%	-40					<b>—</b> C
DS.2004.22	3rd Submission	6	20-Dec-16	28-Dec-16	0%	-40					-
DS.2004.24	Approval	12	29-Dec-16	12-Jan-17	0%	-40					
Glass Wall	with T Mullion (Kinked & Straight B1/F	& G/F).CW-01a to 03d									
DS.2004.30		5	30-Nov-16	05-Dec-16	0%	-84				2nd	Submiss
DS.2004.32	Comment on 2nd Submission	10	06-Dec-16	17-Dec-16	0%	-84					Cor
DS.2004.34	3rd Submission	7	17-Dec-16	27-Dec-16	0%	-84					-
DS.2004.36	Approval	12	28-Dec-16	11-Jan-17	0%	-84					
Glass Wall	with Precast Mullion & Ceramic Mullion	.CW-04-05d and 07									
DS.2004.38		10	30-Nov-16	10-Dec-16	0%	-83				1	1st Subn
DS.2004.40	Comment on 1st Submission	10	12-Dec-16	23-Dec-16	0%	-83					
DS.2004.42	2nd Submission	6	24-Dec-16	31-Dec-16	0%	-83					
DS.2004.44	Comment on 2nd Submission	11	04-Jan-17	16-Jan-17	0%	-83					
DS.2004.46	3rd Submission	6	17-Jan-17	23-Jan-17	0%	-83					
DS.2004.48	Approval	12	24-Jan-17	09-Feb-17	0%	-83					
Podium Ce	ramic Concrete Tubes & with Perforated	I Cladding, FAC-CW-07									
DS.2004.50	1st Submission	10	30-Nov-16	10-Dec-16	0%	-75				<b>—</b> 1	1st Subn
DS.2004.52	Comment on 1st Submission	10	12-Dec-16	24-Dec-16	0%	-75					
DS.2004.54	2nd Submission	6	24-Dec-16	03-Jan-17	0%	-75					
DS.2004.56	Comment on 2nd Submission	11	03-Jan-17	16-Jan-17	0%	-75					
DS.2004.58	3rd Submission	6	16-Jan-17	23-Jan-17	0%	-75		+	+		
DS.2004.60	Approval	12	23-Jan-17	09-Feb-17	0%	-75					
Garden Ga	Ilery Ceramic Cladding & Ceiling,CE-03a	a,03b,03c									
DS.2004.66		6	30-Nov-16	06-Dec-16	0%	11				🗖 2nd	l Submis
DS.2004.68	Comment on 2nd Submission	11	07-Dec-16	19-Dec-16	0%	11					Co
DS.2004.70	3rd Submission	6	20-Dec-16	28-Dec-16	0%	11					



D Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish		sh Current nce Float	Nove 30 06	ember 2016 13 20	27 04	December 2016		Janu 01 08	ary 2017
DS.2004.72 Approval	12			29-Dec-16	12-Jan-17	0%	11		13 20	21 04	11 10	23		Approv
3 Storefront,CW-08a,08b														
0S.2004.82 3rd Submission	6			30-Nov-16	06-Dec-16	0%	75				3rd Submiss	ion		
DS.2004.84 Approval	12			07-Dec-16	20-Dec-16	0%	75				A	pproval		
trip Glazing at Skylight Gallery L3 & Plaza Skylight,CW10,SK-	-01,02													
0S.2004.90 2nd Submission	5			30-Nov-16	05-Dec-16	0%	3			2	2nd Submiss	ion		
OS.2004.92 Comment on 2nd Submission	11			07-Dec-16	19-Dec-16	0%	3				Cc	omment	on 2nd S	ubmis
OS.2004.94 3rd Submission	6			20-Dec-16	28-Dec-16	0%	43					🗕 3rd	Submiss	ion
DS.2004.96 Approval	12			29-Dec-16	12-Jan-17	0%	43							Appro
hop Drawings Metal Cladding FAC-LV-01b (Additional Scope)														
OS.2004.106 1st Submission	11			30-Nov-16	13-Dec-16	0%	1				📕 1st Sul	bmission		
OS.2004.116 Comment on 1st Submission	12			13-Dec-16	29-Dec-16	0%	1					🚧 🚧	mment o	n 1st
DS.2004.126 2nd Submission	5			29-Dec-16	05-Jan-17	0%	1						2nd S	ubmis
OS.2004.136 Comment on 2nd Submission	11			05-Jan-17	18-Jan-17	0%	1							<mark>—</mark> с
DS.2004.146 3rd Submission	6			18-Jan-17	25-Jan-17	0%	1							
DS.2004.156 Approval	11			25-Jan-17	10-Feb-17	0%	1							
acade Doors - Shop Drawings Submission (Additional Works	)													
acade Door Package # 1: Glazed Doors Bet Ceramic Concret	•	on (Total =	53 nos)											
DS.2004.166 Facade Door Package # 1 - 1st Submission	12			30-Nov-16	14-Dec-16	0%	-81				Facad	e Door Pa	ckage #	1 - 1
DS.2004.176 Facade Door Package # 1 - Comment on 1st Submission	12			14-Dec-16	30-Dec-16	0%	-81					Fa	acade Do	or Pac
DS.2004.186 Facade Door Package # 1 - 2nd Submission	17			30-Dec-16	20-Jan-17	0%	-81						_	_
DS.2004.196 Facade Door Package # 1 - Comment on 2nd Submission	10			20-Jan-17	04-Feb-17	0%	-81							=
DS.2004.206 Facade Door Package # 1 - 3rd Submission	12			04-Feb-17	18-Feb-17	0%	-81							
DS.2004.216 Facade Door Package # 1 - Approval	12			18-Feb-17	04-Mar-17	0%	-81							
Facade Door Package # 2: Sliding Door in L3 Storefront (Total	= 4 no	s automati	c)											
DS.2004.226 Facade Door Package # 2 - 1st Submission	12		-,	30-Nov-16*	13-Dec-16	0%	-81				📕 Facade	e Door Pa	ckage #	2 - 1s
DS.2004.236 Facade Door Package # 2 - Comment on 1st Submission	12			14-Dec-16	29-Dec-16	0%	-81					Fa	cade Doc	r Pacl
DS.2004.246 Facade Door Package # 2 - 2nd Submission	18			30-Dec-16	21-Jan-17	0%	-81						_	
DS.2004.256 Facade Door Package # 2 - Comment on 2nd Submission	11			21-Jan-17	07-Feb-17	0%	-81							I
DS.2004.266 Facade Door Package # 2 - 3rd Submission	11			07-Feb-17	20-Feb-17	0%	-81					+		
DS.2004.276 Facade Door Package # 2 - Approval	11			20-Feb-17	04-Mar-17	0%	-81							
Facade Door Package # 3: Swing Door at L3 Cafe (Total = 1 no		al)												
DS.2004.286 Facade Door Package # 3 - 1st Submission	12	,		30-Nov-16*	13-Dec-16	0%	-70				📕 Facade	e Door Pa	ckage #	3 - 19
DS.2004.296 Facade Door Package # 3 - Comment on 1st Submission	12			14-Dec-16	29-Dec-16	0%	-70						cade Doo	
DS.2004.306 Facade Door Package # 3 - 2nd Submission	12			30-Dec-16	14-Jan-17	0%	-70							Faca
DS.2004.316 Facade Door Package # 3 - Comment on 2nd Submission	12			14-Jan-17	01-Feb-17	0%	-70							
DS.2004.326 Facade Door Package # 3 - 3rd Submission	5			01-Feb-17	07-Feb-17	0%	-70							
DS.2004.336 Facade Door Package # 3 - Approval	11			07-Feb-17	20-Feb-17	0%	-70							
Facade Door Package # 4: Swing Door Mounted in GW with T-		n (Total – 2	9 noc)	0,1001/	2010017	0.70	70							
DS.2004.346 Facade Door Package # 4 - 1st Submission	14	(10tal – 2	3 1105)	30-Nov-16*	16-Dec-16	0%	-81				Faca	ide Door I	Package	#4-
DS.2004.346 Facade Door Package # 4 - ist Submission DS.2004.356 Facade Door Package # 4 - omment on 1st Submission	14			16-Dec-16	03-Jan-17	0%	-81						Facade	1
DS.2004.366 Facade Door Package # 4 - 2nd Submission	12						-81							
DS.2004.300 Facage DUUL Fackage # 4 - ZITU SUDITISSION	14			03-Jan-17	19-Jan-17	0%	-01							1
DS.2004.376 Facade Door Package # 4 - Comment on 2nd Submission	13			19-Jan-17	07-Feb-17	0%	-81							. 🗖

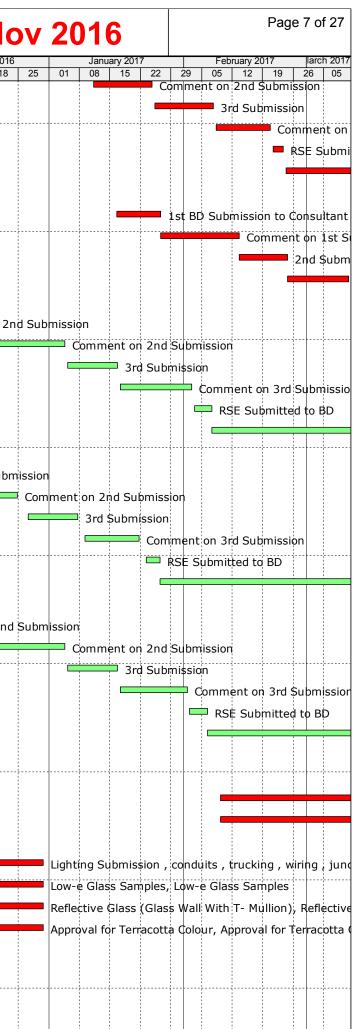
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ared on 07-	<sup>-Dec-16</sup> (3MRP-14) T	hree N	<b>Nonths Rolling</b>	a Prod	rai	mme	Status	at 30	Nov	2016	Page 5
ID	Activity Name		BaseLine Start BaseLine Forecast / Actual Finish Start		%	Finish Current √ariance Float 30	November 2016	Dece	mber 2016	January 2017	February 2017
DS.2004.39	96 Facade Door Package # 4 - Approval	12	18-Feb-17	04-Mar-17	0%	-81	06 13 20	27 04	11 18 25	01 08 15 22	2 29 05 12 19 2
Facade Do	oor Package # 5: Large Double Door at B1/F Tra	ansformaer Ro	oom (Total = 1 no manual)								
	06 Facade Door Package # 5 - 1st Submission	14	30-Nov-16*	15-Dec-16	0%	-71			Facade Do	or Package # 5 - 1st	Submission
DS.2004.41	16 Facade Door Package # 5 - Comment on 1st Submission	n 12	16-Dec-16	31-Dec-16	0%	-71				Facade Door Packa	ge # 5 - Comment on 1st S
DS.2004.42	26 Facade Door Package # 5 - 2nd Submission	11	03-Jan-17	16-Jan-17	0%	-71				Facade	e Door Package # 5 - 2nd S
DS.2004.43	36 Facade Door Package # 5 - Comment on 2nd Submission	on 10	16-Jan-17	27-Jan-17	0%	-71					Facade Door Package # 5
DS.2004.44	46 Facade Door Package # 5 - 3rd Submission	6	27-Jan-17	07-Feb-17	0%	-71					Facade Door Pac
S.2004.45	56 Facade Door Package # 5 - Approval	12	07-Feb-17	21-Feb-17	0%	-71					Faca
acade Do	oor Package # 6: B1/F Exit Doors (Total = 7 nos	manual)									
	66 Facade Door Package # 6 - 1st Submission	13	30-Nov-16*	15-Dec-16	0%	-71			Facade Do	or Package # 6 - 1st s	Submission
S.2004.47	76 Facade Door Package # 6 - Comment on 1st Submission	n 10	15-Dec-16	29-Dec-16	0%	-71			-	Facade Door Package	e # 6 - Comment on 1st Su
S.2004.48	86 Facade Door Package # 6 - 2nd Submission	12	29-Dec-16	13-Jan-17	0%	-71				Facade D	)oor Package # 6 - 2nd Sub
S.2004.49	96 Facade Door Package # 6 - Comment on 2nd Submission	on 12	13-Jan-17	27-Jan-17	0%	-71					Facade Door Package # 6
S.2004.50	06 Facade Door Package # 6 - 3rd Submission	6	27-Jan-17	07-Feb-17	0%	-71					Facade Door Pac
S.2004.51	16 Facade Door Package # 6 - Approval	12	07-Feb-17	21-Feb-17	0%	-71					Faca
acade Do	oor Package # 7: Garden Gallery Door (Total = 2	2 nos manual)									
	26 Facade Door Package # 7 - 1st Submission	12	30-Nov-16*	13-Dec-16	0%	-69			Facade Door	- Package # 7 - 1st Su	ubmission
S.2004.53	36 Facade Door Package # 7 - Comment on 1st Submission	n 12	14-Dec-16	29-Dec-16	0%	-69				Facade Door Package	e # 7 - Comment on 1st Su
S.2004.54	46 Facade Door Package # 7 - 2nd Submission	12	30-Dec-16	14-Jan-17	0%	-69				Facade	Door Package # 7 - 2nd Su
S.2004.55	56 Facade Door Package # 7 - Comment on 2nd Submission	on 11	14-Jan-17	27-Jan-17	0%	-69					Facade Door Package # 7
S.2004.56	66 Facade Door Package # 7 - 3rd Submission	6	27-Jan-17	07-Feb-17	0%	-69					Facade Door Pac
S.2004.57	76 Facade Door Package # 7 - Approval	10	07-Feb-17	18-Feb-17	0%	-69					Facade
acade Do	oor Package # 8: Door Loacted at Metal Claddir	ngs (Total = 20	nos manual)								
	86 Facade Door Package # 8 - 1st Submission	11	· · · · · · · · · · · · · · · · · · ·	13-Dec-16	0%	-63			Facade Door	Package # 8 - 1st Su	ıbmission
S.2004.59	96 Facade Door Package # 8 - Comment on 1st Submission	n 12	13-Dec-16	29-Dec-16	0%	-63		1		Facade Door Package	e # 8 - Comment on 1st Su
S.2004.60	06 Facade Door Package # 8 - 2nd Submission	6	29-Dec-16	06-Jan-17	0%	-63				Facade Door P	ackage # 8 - 2nd Submissi
S.2004.61	16 Facade Door Package # 8 - Comment on 2nd Submission	on 11	06-Jan-17	19-Jan-17	0%	-63				Faca	ade Door Package # 8 - Cor
S.2004.62	26 Facade Door Package # 8 - 3rd Submission	6	19-Jan-17	26-Jan-17	0%	-63					Facade Door Package # 8
S.2004.63	36 Facade Door Package # 8 - Approval	11	26-Jan-17	11-Feb-17	0%	-63					Facade Door
acade Do	oor Package # 9: G/F Access Door in Ceramic T	ube (Total = 8	nos)								
	46 Facade Door Package # 9 - 1st Submission	12	30-Nov-16*	13-Dec-16	0%	-70		-	Facade Door	Package # 9 - 1st Su	ubmission
S.2004.65	56 Facade Door Package # 9 - Comment on 1st Submission	n 12	14-Dec-16	30-Dec-16	0%	-70				Facade Door Packag	e # 9 - Comment on 1st Sı
S.2004.66	66 Facade Door Package # 9 - 2nd Submission	12	30-Dec-16	14-Jan-17	0%	-70				Facade	Door Package # 9 - 2nd Su
S.2004.67	76 Facade Door Package # 9 - Comment on 2nd Submission	on 11	14-Jan-17	27-Jan-17	0%	-70					Facade Door Package # 9
S.2004.68	86 Facade Door Package # 9 - 3rd Submission	6	27-Jan-17	07-Feb-17	0%	-70					Facade Door Pac
S.2004.69	96 Facade Door Package # 9 - Approval	11	07-Feb-17	20-Feb-17	0%	-70					Facad
acade Do	oor Package # 10: B1/F Carriageway Access Pa	nel / Doors (To	otal = 24 nos)								
	06 Facade Door Package # 10 - 1st Submission	12	30-Nov-16*	13-Dec-16	0%	-83			Facade Door	Package # 10 - 1st s	Submission
S.2004.71	16 Facade Door Package # 10 - Comment on 1st Submissi	on 11	14-Dec-16	29-Dec-16	0%	-83				Facade Door Package	e # 10 - Comment on 1st S
S.2004.72	26 Facade Door Package # 10 - 2nd Submission	18	29-Dec-16	20-Jan-17	0%	-83				Fac	ade Door Package # 10 - 2
S.2004.73	36 Facade Door Package # 10 - Comment on 2nd Submiss	ion 12	20-Jan-17	07-Feb-17	0%	-83		-			Facade Door Pac
S.2004.74	46 Facade Door Package # 10 - 3rd Submission	12	07-Feb-17	21-Feb-17	0%	-83					Faca
S.2004.75	56 Facade Door Package # 10 - Approval	12	21-Feb-17	07-Mar-17	0%	-83					
	oor Package # 11: CSF Bldg (Total = 2 nos)	<u> </u>									

y ID	Activity Name	Ori. Bas Dur.	seLine Start	BaseLine Forecast / Actual Finish Start	Forcast / Actual Finish	% Compl.	Finish Current Variance Float 3		mber 2016 13 20	27	Decembe 04 11	er 2016 18 25	01
DS.2004.7	766 Facade Door Package # 11 - 1st Submission	12		30-Nov-16*	14-Dec-16	0%	-69					acade Dooi	
DS.2004.7	76 Facade Door Package # 11 - Comment on 1st Submission	12		14-Dec-16	30-Dec-16	0%	-69						Facad
DS.2004.7	'86 Facade Door Package # 11 - 2nd Submission	11		30-Dec-16	13-Jan-17	0%	-69					•	-
DS.2004.7	96 Facade Door Package # 11 - Comment on 2nd Submission	10		13-Jan-17	25-Jan-17	0%	-69						
DS.2004.8	606 Facade Door Package # 11 - 3rd Submission	6		25-Jan-17	04-Feb-17	0%	-69						
DS.2004.8	16 Facade Door Package # 11 - Approval	12		04-Feb-17	18-Feb-17	0%	-69						
Facade D	oor Package # 12: B1/F Smoke Vent Panel (Total = 1	no)											
DS.2004.8	26 Facade Door Package # 12 - 1st Submission	12		30-Nov-16*	14-Dec-16	0%	-71				Fa	acade Dooi	Pack
DS.2004.8	Facade Door Package # 12 - Comment on 1st Submission	11		14-Dec-16	29-Dec-16	0%	-71				_		Facad
DS.2004.8	Facade Door Package # 12 - 2nd Submission	12		29-Dec-16	13-Jan-17	0%	-71					-	
DS.2004.8	Facade Door Package # 12 - Comment on 2nd Submission	12		13-Jan-17	27-Jan-17	0%	-71						
DS.2004.8	Facade Door Package # 12 - 3rd Submission	6		27-Jan-17	07-Feb-17	0%	-71						
DS.2004.8	76 Facade Door Package # 12 - Approval	12		07-Feb-17	21-Feb-17	0%	-71						
Embed BD	Submission		Ś										
M+ Podiu	m												
M+ Podiu	ım (B1/F) - Embed Submission												
DS.2005.1	2 Preparation of BD Consent Application	5		30-Nov-16	05-Dec-16	0%	-7				Preparat	ion of BD (	Conse
DS.2005.1	4 BD Consent Application	30		06-Dec-16	12-Jan-17	0%	-7						+
M+ Podiu	ım (G/F to 3/F) - Embed Submission		,	· · · · · · · · · · · · · · · · · · ·									
DS.2005.2	Preparation of BD Consent Application	6		30-Nov-16	06-Dec-16	0%	-46				💻 Prepara	tion of BD	Conse
DS.2005.2	BD Consent Application	30		07-Dec-16	13-Jan-17	0%	-46						-
M+ Tower							· ·						
M+ Towe	r (4/F to RF/F) - Embed Submission												
DS.2006.1	0 BD Submission & Approval	60		30-Nov-16	14-Feb-17	0%	-44						+
DS.2006.1	2 Preparation of BD Consent Application	6		15-Feb-17	21-Feb-17	0%	-44						
DS.2006.1	4 BD Consent Application	30		21-Feb-17	28-Mar-17	0%	-44						
BD Submi	ssion, Consent & Approval												
Tower Pre	ecast Unitized Facade												
DS.2016.2	6 BD Submission & Approval	60		31-Oct-16 A	30-Dec-16	50%	29						BD S
DS.2016.2	8 Preparation of BD Consent Application	5		31-Dec-16	06-Jan-17	0%	29						<b>—</b>
DS.2016.3	0 BD Consent Application & Approval	30		07-Jan-17	14-Feb-17	0%	29						
Podium P	recast Unitized Facade												
DS.2016.4		60		31-Oct-16 A	27-Dec-16	50%	82	_				в	D Sub
DS.2016.4	8 Preparation of BD Consent Application	6		27-Dec-16	04-Jan-17	0%	108					-	<b>-</b>
DS.2016.5	0 BD Consent Application & Approval	30		04-Jan-17	11-Feb-17	0%	108						
Glass Wa	II with T Mullion (Kinked & Straight B1/F & G/F),CW-(	01a-03d											
DS.2016.5		10		05-Jan-17	16-Jan-17	0%	-20						
DS.2016.5	4 Comment on 1st Submission	11		17-Jan-17	02-Feb-17	0%	-20						
DS.2016.5	6 2nd Submission	10		02-Feb-17	14-Feb-17	0%	-20						
DS.2016.5	8 Comment on 2nd Submission	12		14-Feb-17	28-Feb-17	0%	-20						
	Il with Precast Mullion & Ceramic Mullion,CW-04 to (												
DS.2016.7		10		30-Nov-16*	10-Dec-16	0%	-3			[ <b> </b>	📕 1st E	3D Submis	sion to
DS.2016.7		11		12-Dec-16	27-Dec-16	0%	-3					с	omme
	6 2nd Submission	11		28-Dec-16	10-Jan-17	0%	-3			:			

Nov	20	)1(	6						Pag	e 6 o	f 27
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-			Facad	de Do	or I	Pacl	kage	# 11	2nd	Subm	issio
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						ļ			Faca	de Do	or Pa
					.						
Facade Door	Packa	age #	12 -	1st Si	Jpu	niss	sion				
F	acade	e Doo	r Pack	age #	# 1	2 -	Comr	nent	on 1st	Subr	nissio
			Facad	le Do	or I	Pac	kade	# 12	2nd	Subm	issio
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		Prepa	ratior	of B	Þ¢	on	sent A	Applica	ation		
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B	) Sub	missio	on & A	۱ppro	/al,	BD	Subr	missic	n & A	pprov	al
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								55 (	onsei		incure
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st BD Submiss	ion to	Cons	ultan	t							
Co	mme	nt on	1st S	ubmi	ssic	on					
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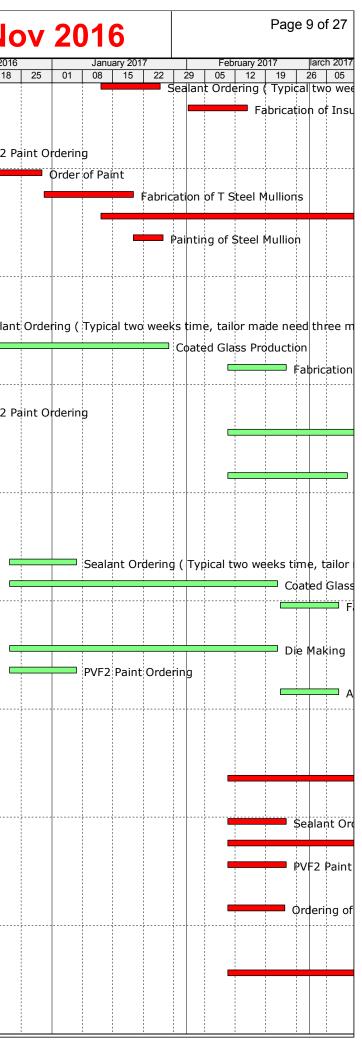
D	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish		Finish Current /ariance Float		November 06 13		27	04	ecer
DS.2016.78	Comment on 2nd Submission	12		1 111311	11-Jan-17	24-Jan-17	0%	-3		00 13	20	21	04	
DS.2016.80	3rd Submission	9			25-Jan-17	07-Feb-17	0%	-3						
DS.2016.82	Comment on 3rd Submission	11			08-Feb-17	20-Feb-17	0%	-3						
DS.2016.84	RSE Submitted to BD	3			21-Feb-17	23-Feb-17	0%	-3						
DS.2016.86	BD Submission & Approval	60			24-Feb-17	11-May-17	0%	-3						
Podium Cera	amic Concrete Tubes & with Perforated Cladding,C	E01a.0	)1b.02a											
	1st BD Submission to Consultant	9	, <b>,</b>		16-Jan-17*	26-Jan-17	0%	-24						
DS.2016.094	Comment on 1st Submission	12			26-Jan-17	13-Feb-17	0%	-24						
DS.2016.096	2nd Submission	10			13-Feb-17	24-Feb-17	0%	-24						
DS.2016.098	Comment on 2nd Submission	12			24-Feb-17	10-Mar-17	0%	-24						
Garden Gall	ery Ceramic Cladding & Ceiling,CE-3a,3b,3c													
	2nd Submission	11			07-Dec-16	19-Dec-16	0%	111						_
	Comment on 2nd Submission	11			20-Dec-16	04-Jan-17	0%	111						
	3rd Submission	10			05-Jan-17	16-Jan-17	0%	111						
	Comment on 3rd Submission	12			17-Jan-17	02-Feb-17	0%	111						
	RSE Submitted to BD	3			03-Feb-17	07-Feb-17	0%	111						
	BD Submission & Approval	60			07-Feb-17	22-Apr-17	0%	111						
		00			07 160 17	22 Api 17	0 /0	111						
	t <b>,CW-08a,08b</b> 2nd Submission	10			30-Nov-16	10-Dec-16	0%	191						2
	Comment on 2nd Submission	11			10-Dec-16	24-Dec-16	0%	191					Ē	_
	3rd Submission	10			27-Dec-16	07-Jan-17	0%	191						
	Comment on 3rd Submission				09-Jan-17	21-Jan-17		191						
		12				21-Jan-17 26-Jan-17	0%							
	RSE Submitted to BD	3			23-Jan-17		0%	191	,					
	BD Submission & Approval	60			26-Jan-17	11-Apr-17	0%	191						
-	g at Skylight Gallery L3 & Plaza Skylight,CW-10,SK				07 0 16	17 0 16	0.01	1 47						
	2nd Submission	10			07-Dec-16	17-Dec-16	0%	147						
	Comment on 2nd Submission	11			19-Dec-16	04-Jan-17	0%	147						
	3rd Submission	10			05-Jan-17	16-Jan-17	0%	147						
	Comment on 3rd Submission	11			17-Jan-17	01-Feb-17	0%	147						
	RSE Submitted to BD	3			02-Feb-17	06-Feb-17	0%	147						
	BD Submission & Approval	60			06-Feb-17	21-Apr-17	0%	147						
	mission & Approval													
	nple Submission													
DS.2018.28	Facade Door - Glass sample submission	36			09-Feb-17	23-Mar-17	0%	-83						
DS.2018.38	Facade Door - Steel Frame & Ironmogery sample submission	36			09-Feb-17	23-Mar-17	0%	-83						
Material App														_
DS.2020.10	Lighting Submission , conduits , trucking , wiring , junction bo				20-Dec-15 A		80%	-26						
DS.2020.14	Low-e Glass Samples	208			21-Dec-15 A		90%	-48						
DS.2020.16	Reflective Glass (Glass Wall With T- Mullion)	208			21-Dec-15 A		90%	-50						
DS.2020.12	Approval for Terracotta Colour	11			27-Dec-15 A	30-Dec-16	80%	-50						
/isual Mock														
Hybrid Mock	α Up													



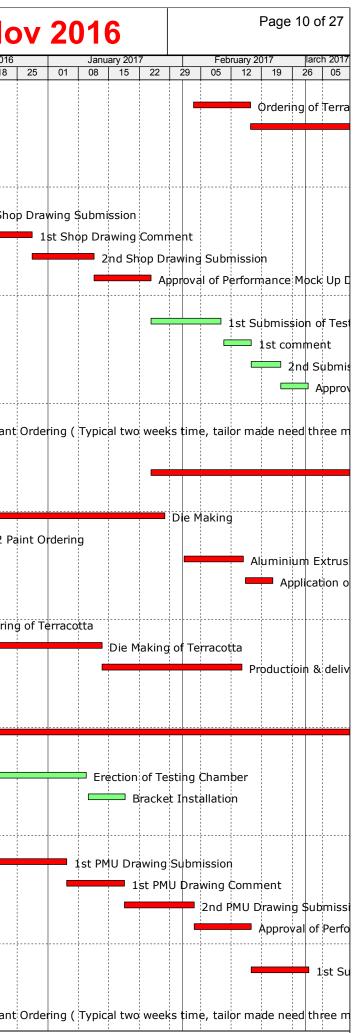
(3MRP-14) Three					Jian	IIIIC		aı	5		V 4		
D Activity Name	Ori. BaseLine Start Dur.	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish		nish Current ance Float 3	ovember 2016           3         13         20	27	04			01 0	anuary 20 8   15
DS.2021.172 Approval on Shop Drawings	10		30-Nov-16*	10-Dec-16	0%	-4				Approval or	n Shop	Drawi	ngs
Terracotta													
DS.2021.176 Production of Terracotta	24		08-Dec-16	07-Jan-17	0%	-4	 					Pi	roduct
DS.2021.178 Delivery of Terracotta to Precast Factory	1		19-Jan-17	19-Jan-17	0%	-4							
Installation													
DS.2021.187 Delivery of ceramic precast mullion to site	2		20-Jan-17	21-Jan-17	0%	-4							
DS.2021.188 Installation of Terracotta on Mock-up	6		24-Jan-17	02-Feb-17	0%	-4							
roduction Mock Up													
Fower Precast Facade Panels w/ Percast Concrete , Terracotta, I	ighting & Curta	n Wall											
Tower Facade - Ordering & Production of Material													
DS.2022.4 Sealant Ordering (Typical two weeks time, tailor made need th	12		30-Nov-16*	13-Dec-16	0%	64				Sealant (	Orderir	g ( Ty	pical t
Tower Facade - Glass Production & Fabrication													
DS.2022.6 Coated Glass Production	48		30-Nov-16*	27-Jan-17	0%	4							
DS.2022.8 Fabrication of Insulated Glass Panel	13		01-Feb-17	15-Feb-17	0%	4	 						
Tower Facade - Curtain Wall glazed panel production and Fabricatio	in												
DS.2022.12 Die Making	21		13-Jan-17	09-Feb-17	0%	-15							
DS.2022.16 Aluminium Extrusion Production	12		13-Feb-17	25-Feb-17	0%	-15							
DS.2022.14 PVF2 Paint Ordering	12		13-Feb-17	25-Feb-17	0%	-15							
Tower Facade - Terracotta	]]	,	-)				 						
DS.2022.22 Ordering of Terracotta	10		19-Dec-16	03-Jan-17	0%	14						Orde	rinģ o
DS.2022.24 Die Making of Terracotta	45		03-Jan-17	28-Feb-17	0%	14							
DS.2022.26 Productioin & delivery of Terracotta Mockup Sample	45		17-Jan-17	14-Mar-17	0%	14							
Tower Facade - Precast Concrete Facade	]]	,	.)										
Tower Facade - Precast Facade Die Making							 						
DS.2022.28 Tower Facade Precast Concrete Mould Making	45		19-Dec-16	15-Feb-17	0%	-8							
DS.2022.30 Concreting of Precast Concrete	18		16-Feb-17	08-Mar-17	0%	-8							
Podium Precast Facade Panel w/ Percast Concrete , Terracotta 8	& Curtain Wall												
Podium Facade - Ordering & Production of Material													
Podium Facade - Glass Production & Fabrication							 						
DS.2022.42 Sealant Ordering ( Typical two weeks time, tailor made need th	12		13-Jan-17	26-Jan-17	0%	54							-
DS.2022.44 Coated Glass Production	48		13-Jan-17	13-Mar-17	0%	6							-
Podium Facade - Curtain Wall glazed panel production and Fabricat	ioin	·											
DS.2022.48 Die Making	48		13-Jan-17	13-Mar-17	0%	1							
DS.2022.46 PVF2 Paint Ordering	12		13-Jan-17	26-Jan-17	0%	49	 						
Podium Facade - Terracotta	,												
DS.2022.58 Ordering of Terracotta	10		13-Jan-17	24-Jan-17	0%	-40							-
DS.2022.60 Die Making of Terracotta	45		25-Jan-17	21-Mar-17	0%	-40							
Podium Facade - Precast Concrete Facade	<u> </u>												
Podium Facade - Percast Facade Die Making							 						
DS.2022.64 Percast Concrete Mould Making	45		13-Jan-17	09-Mar-17	0%	18							-
Kinked Glass Wall with T Mullion and reflective Glass at B1,CW	-02b												
Kinked Glass Wall with T Mullion - Ordering & Production of M													
Kinked Glass Wall with T Mullion - Glass Production & Fabrication													
DS.2022.78 Coated Glass Production	48		30-Nov-16	27-Jan-17	0%	-45	 						

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	27	D 04	ecembe	er 2016 18	25	01		ary 201	7 22	29		ruary 20	017		rch 2017
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			🗖 Se	alant	Orde	ring (	Туріс	al two	weel	ks tim	ne, tail	or ma	de ne	ed tl	nree m
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DS. 2022.0 Sector Concerner Devolution of Market Class Panel       12       12       12-30-12       23-28-17       0%       47         DS. 2022.0 Faither Concerner Devolution and Fabrication       01 reb 1/2       14 reb 1/2       0%       47         DS. 2022.0 Faither Concerner Devolution and Fabrication       12       30-46x-16       13-0x-16       0%       47         DS. 2022.0 Faither Concerner Devolution       17       30-46x-16       13-0x-17       0%       44         DS. 2022.0 Faither Concerner Devolution       14       12-30-17       0%       44         DS. 2022.0 Faither Devolution       13-0x-16       0%       12         DS. 2022.0 Faither Devolution       13-0x-16       0%       13-0x-16         DS. 2022.16 Constant Ordering (Tryical two exerts time, tailer made nead H       12       30-48x-16       13-0x-17       0%       13-0x-16         DS. 2022.16 Constant Ordering (Tryical two exerts time, tailer made nead H       12       0-48x-17       0%       64       13-0x-16       14-0x       20         DS. 2022.16 Constant Ordering (Tryical two exerts time, tailer made nead H       12       0-48x-17       0%       13       12       0-48x-17       0%       13       22         DS. 2022.16 Constant Ordering (Tryical two exerts time, tailer made nead H       12 <th>ID Activity Name</th> <th>Dur.</th> <th>aseLine Start BaseLine Finish</th> <th>Forecast / Actual Start</th> <th>Forcast / Actual Finish</th> <th>Compl.</th> <th>Finish Current √ariance Float</th> <th>November 2016           30         06         13         20</th> <th>27 04</th> <th>Decer</th>	ID Activity Name	Dur.	aseLine Start BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	Compl.	Finish Current √ariance Float	November 2016           30         06         13         20	27 04	Decer
Kinked Glass Wall with T Mullion - Curtain Wall glazed panel productionIII <th< td=""><td>DS.2022.76 Sealant Ordering (Typical two weeks time, tailor made need th</td><td>12</td><td></td><td>12-Jan-17</td><td>25-Jan-17</td><td>0%</td><td>-31</td><td></td><td></td><td></td></th<>	DS.2022.76 Sealant Ordering (Typical two weeks time, tailor made need th	12		12-Jan-17	25-Jan-17	0%	-31			
12       30       80       90       -2       0       1         05.2022.66       Onter of Paint       24       30       30       -14       0       0       14       0	DS.2022.80 Fabrication of Insulated Glass Panel	12		01-Feb-17	14-Feb-17	0%	-45			
DS.2022.86       Order of Paint       24       30       30       70       10       10       10         DS.2022.30       Pathetication of Tsteet Mullions       17       30       30       11       11.48a-17       10       10       10         DS.2022.30       Pathetication of Tsteet Mullion       6       30       30       10 </td <td>Kinked Glass Wall with T Mullion - Curtain Wall glazed panel produc</td> <td>tion and</td> <td>Fabricatioin</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Kinked Glass Wall with T Mullion - Curtain Wall glazed panel produc	tion and	Fabricatioin							
D5.2022.90       Pairnation of Steel Mullions       17       0       19-Jan-17       0%       14         D5.2022.87       Die Making       6       12-Jan-17       0%       44         D5.2022.87       Die Making       6       12-Jan-17       0%       44         D5.2022.87       Die Making       0%       10%       0%       44         D5.202.104       Stanting of Steel Mullion       Contrast of Steel Mullion       0%       137         D5.202.104       Stanting of Steel Mullion       Another Mullion       10%       137       0%       137         D5.202.105       Stanting Of Steel Mullion       Fabrication       13       0%       137       0%       137         D5.202.105       Defanded Giase Panel       12       0       10%       132       14       14       14       14       14       14       14       16       16       16       16       16       16       16       16       16       16       16       16       17       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16	DS.2022.84 PVF2 Paint Ordering	12		30-Nov-16	13-Dec-16	0%	-2			_
D5.202.2.8       Die Making       48       Image: Second	DS.2022.86 Order of Paint	24		30-Nov-16	29-Dec-16	0%	-14			-
D5.2022.93Panting of Size Mullion, CW-OT Glass Wall with Percast Concrete Mullion, CW-OT Glass Wall with Percast Concrete Mullion, CW-OT Glass Vall with Percast Concrete Mullion Mullion And FabricationImage: Concrete Mullion 	DS.2022.90 Fabrication of T Steel Mullions	17		30-Dec-16	19-Jan-17	0%	-14			
Glass Wall with Percast Concrete Mullion, CW-07       Image: Solution of Material Glass Production of Material Glass Production of Material Glass Production & Fabrication       Image: Solution & Fabrication Glass Production of Material Glass Production & Fabrication Glass Production & Fabrication Glass Production and Fabrication       Image: Solution & Fabrication Glass Production and Fabrication       Image: Solution & Fabrication Glass Production and Fabrication         DS.2022.130 Cotate Glass Production and Fabrication       Image: Solution & Fabrication Glass Production and Fabrication       Image: Solution & Fabrication Glass Production and Fabrication       Image: Solution & Fabrication Glass Production and Fabrication         DS.2022.130 Protection of Material Glass Production of Material Solution & Fabrication Glass Production of Material Glass Production and Fabrication       Image: Solution & Fabrication Glass Production of Material Glass Production and Fabrication       Image: Solution & Fabrication Glass Production of Material Glass Production of Material Glass Production and Fabrication       Image: Solution & Fabrication Glass Production of Material Glass Production of Material Glass Production of Material Glass Production and Fabrication       Image: Solution & Fabrication Glass Production of Material Glass Production Glass Production of Material Glass Production of Material Glass Production of Material Glass Production Glass Glass Production Glass Glass Production Glass Glass Glass Production Glass Glass Glass Production Glass Glass Glass Production Glass Glas	DS.2022.82 Die Making	48		12-Jan-17	11-Mar-17	0%	-84			
Glass Wall with PC Mullion - Ordering & Production of Material	DS.2022.93 Painting of Steel Mullion	6		19-Jan-17	26-Jan-17	0%	-14			
Glass Production & Fabrication       12       30-Nov-16       13-Dec-16       0%       13-2         DS.2022.104 Coolend (User production       48       30-Nov-16       12-7-3n-17       0%       76         Class Conclusted Glass Panel       12       0       10-feb-17       23-feb-17       0%       76         Class Conclusted Glass Panel       12       0       10-feb-17       23-feb-17       0%       72         Class Concrete Multing       48       0       10-feb-17       0%       74       74         DS.2022.110 Charlenting & Production of Material       64       0       10-feb-17       0%       74       <	Glass Wall with Percast Concrete Mullion,CW-07						,,			
DS.2022.104 Sealant Ordering ( Typical two weeks time, tailor made need th1230-hov-1613-hoc-160%132DS.2022.104 Fonctation Insultant Glasss Panel1210-hev-1623-heb-170%74DS.2022.104 Fonctation Insultant Glasss Panel1230-hov-1613-hec-170%226Glass Wall glazed panel production and Fabrication1230-hov-1613-hec-170%226DS.2022.104 Fonctation Reads1230-hov-1613-hec-170%226DS.2022.104 Production Precast Concrete Mulding2410-heb-170%43DS.2022.104 Production Material1220-hec-1606-Jan-170%43Storeformt, CW-08Storeformt, CW-0812-hec-170%0%10 <h></h> methodDS.2022.134 Production Affabrication1220-hec-1606-Jan-170%0%0 <h method<="" td="">DS.2022.134 Calcular disas Production122022-hec-160-han-170%0%0<h method<="" td="">DS.2022.134 Production Affabrication122022-hec-160-han-170%0%0%DS.2022.134 Production affabrication122022-hec-160-han-170%0%0%DS.2022.134 Production affabrication122022-hec-160-han-170%0%0%DS.2022.134 Production affabrication122022-hec-160-han-170%0%10<h method<="" td="">DS.2022.134 Production affabrication122022-hec-160-han-170%</h></h></h>	Glass Wall with PC Mullion - Ordering & Production of Material									
DS.2022.100 coated Glass Production484830 - Nov-1627 - Jan-179%884DS.2022.100 fabrication120007677 <td< td=""><td>Glass Production &amp; Fabrication</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Glass Production & Fabrication									
DS 2022.108 Pathcation of Insulated Glass Panel       12       0       10 Feb.17       23 Feb.17       0%       76       1	DS.2022.104 Sealant Ordering (Typical two weeks time, tailor made need th	12		30-Nov-16	13-Dec-16	0%	132			+
Glass Wall glazed panel production and Fabrication       12       Solve -16       3-0-e-16       0%       126         DS.2022.110 PWEP Paint Ordering       12       0       0-Feb-17       07-0-r17       0%       20         DS.2022.112 Die Making       24       0       10-Feb-17       09-Mar-17       0%       43         Precast Concrete Mullion       24       0       10-Feb-17       09-Mar-17       0%       43         L3 Storefront, CW-08       US       10-Feb-17       09-Mar-17       0%       43         DS.2022.130 Production of Material       12       0       02-20-ec-16       05-Jan-17       0%       128         DS.2022.130 Sealant Ordering (Typical two weeks time, tailor made need th       12       22-Dec-16       05-Jan-17       0%       128         DS.2022.130 Fachication       48       0       22-Dec-16       05-Jan-17       0%       128         DS.2022.130 Function of Discutient       12       22-Dec-16       05-Jan-17       0%       128         DS.2022.130 Function or function       12       22-Dec-16       05-Jan-17       0%       128         DS.2022.130 Function or function       12       22-Dec-16       05-Jan-17       0%       128         DS.2022.130 Function	DS.2022.106 Coated Glass Production	48		30-Nov-16	27-Jan-17	0%	84			+
DS.2022.110       PVP2 Paint Ordering       12       30-Nov-16       13-Dec-16       0%       126         DS.2022.112 Die Making       48       10-Feb-17       07-Apr.17       0%       20         Precast Concrete Multion       24       01-Feb-17       09-Mar.17       0%       20         S.2022.120 Production Precast Concrete Moulding       24       01-Feb-17       09-Mar.17       0%       20       20         S.2022.120 Production Precast Concrete Moulding       24       01-Feb-17       09-Mar.17       0%       20       20         Glass Production R Abtrication       U       22-Dec-16       66-Jan.17       0%       20       20         DS.2022.130 Codeted Glass Production and Fabrication       12       22-Dec-16       21-Feb.17       0%       20       20         DS.2022.130 Codeted Glass Production and Fabrication       12       22-Dec-16       21-Feb.17       0%       20       20         DS.2022.136 White Production and Fabrication       12       22-Dec-16       0-Fab.17       0%       20       20         DS.2022.136 White Production of Materia       12       22-Dec-16       0-Fab.17       0%       20       20         DS.2022.136 White Production on Materia       12       22-Dec-16	DS.2022.108 Fabrication of Insulated Glass Panel	12		10-Feb-17	23-Feb-17	0%	76			
DS.2022.112 Die Making48484010 - Feb.170.7 Apr.170.%2.7Precast Concrete Mullion2420 - Feb.170 - Mar.170.%0.40.	Glass Wall glazed panel production and Fabricatioin	,	, 				, I			
Precast Concrete Mullion       24       0       0.7 ePb-17       0.94       4.3       0.9	DS.2022.110 PVF2 Paint Ordering	12		30-Nov-16	13-Dec-16	0%	126			+
DS.2022.120 Production Precast Concrete Moulding       24       0       9-Reh27       0%       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0       0       43       0	DS.2022.112 Die Making	48		10-Feb-17	07-Apr-17	0%	22			
1.3 Storefront, CW-08         L3 Storefront - Ordering & Production of Material         Glass Production & Fabrication         D5.2022.130 (bealant Ordering (Typical two weeks time, tailor made need th       12       22-Dec-16       06-Jan-17       0%       128         D5.2022.132 (bacted Glass Production of Insulated Glass Panel       12       22-Dec-16       21-Feb-17       0%       80         D5.2022.134 (bacted Glass Production and Fabrication       12       22-Dec-16       21-Feb-17       0%       75         D5.2022.138 Die Making       48       22-Dec-16       06-Jan-17       0%       128         D5.2022.138 Die Making       12       22-Dec-16       06-Jan-17       0%       128         D5.2022.138 Die Making       12       22-Dec-16       06-Jan-17       0%       128         D5.2022.134 Die Making       12       22-Dec-16       06-Jan-17       0%       128         D5.2022.134 Outminium Extrusion Production       12       22-Feb-17       0%       128         D5.2022.134 Dia Making       12       07-Har-17       0%       128         D5.2022.140 Aluminium Extrusion Production of Material       Cerating Recease Production of Material       128       10-Feb-17       07-Apr-17       0%       616         D5.2022.154 C	Precast Concrete Mullion			]			]]			
L3 Storefront - Ordering & Production of Material         Glasss Production & Fabrication         D5.2022.130 Sealant Ordering (Typical two weeks time, tailor made need th)       12       2       22-Dec-16       05-Jan-17       0%       128         D5.2022.132 Coated Glass Production       48       2       22-Dec-16       21-Feb-17       0%       0       128         D5.2022.134 Fabrication of Insulated Glass Panel       12       2       22-Dec-16       21-Feb-17       0%       0       75         D5.2022.134 De Making       48       2       22-Dec-16       21-Feb-17       0%       0       75         D5.2022.136 PVF2 Paint Ordering       12       2       2       22-Feb-17       0%       0       75         D5.2022.136 PVF2 Paint Ordering & Production       12       2       22-Feb-17       0%       0       75         D5.2022.140 Aluminium Extrusion Production of Material       12       2       22-Feb-17       0%       0       75         D5.2022.140 Councing & Production of Material       12       2       2-Feb-17       0%       0       75         D5.2022.140 Coated Glass production of Material       10       10-Feb-17       07-Apr-17       0%       0       10         D5.2022.152 Sealant Order	DS.2022.120 Production Precast Concrete Moulding	24		10-Feb-17	09-Mar-17	0%	43			
Glass Production & Fabrication       9       22-Dec-16       06-Jan-17       0%       128         DS.2022.132 Coated Glass Production       48       22-Dec-16       21-Feb-17       0%       80         DS.2022.134 Fabrication of Insulated Glass Panel       12       0       22-Dec-16       21-Feb-17       0%       80         DS.2022.134 Fabrication of Insulated Glass Panel       12       0       22-Dec-16       21-Feb-17       0%       80         DS.2022.138 Die Making       48       22-Dec-16       21-Feb-17       0%       75         DS.2022.138 Die Making       48       22-Dec-16       61-Jan-17       0%       75         DS.2022.130 PVF2 Paint Ordering       12       0       22-Dec-16       06-Jan-17       0%       75         DS.2022.140 Aluminium Extrusion Production       12       0       22-Dec-16       07-Mar-17       0%       75         JF Facade - Ordering & Production of Material       12       0       10-Feb-17       07-Mar-17       0%       61-37         DS.2022.154 Coated Glass production A Fabrication       48       10-Feb-17       07-Apr-17       0%       6-67         DS.2022.154 Coated Glass production and Fabrication       12       0       10-Feb-17       07-Apr-17       0%	_3 Storefront,CW-08									
DS.2022.130 Sealant Ordering (Typical two weeks time, tailor made need th       12       0       22-Dec-16       06-Jan-17       0%       128         DS.2022.132 Coated Glass Production       48       0       22-Dec-16       21-Feb-17       0%       0       00	L3 Storefront - Ordering & Production of Material									
DS.2022.132       Coated Glass Production       48       22-Dec-16       21-Feb-17       0%       80         DS.2022.134       Fabrication of Insulated Glass Panel       12       2       22-Feb-17       07-Mar-17       0%       80       6       6       6       6       6       6       6       6       7       7       0%       80       7       7       0%       75       7       0%       75       7       0%       75       7       0%       75       7       0%       75       7       7       0%       75       7       7       0%       75       7	Glass Production & Fabrication									
DS.2022.134       Fabrication of Insulated Glass Panel       12       0       22-Feb-17       0%       80       80       80         Glass Wall gized panel production and Fabrication       48       0       22-Dec-16       21-Feb-17       0%       0       12       12       0       22-Dec-16       06-Jan-17       0%       12       12       0       22-Dec-16       06-Jan-17       0%       12       12       0       12       0       22-Dec-16       06-Jan-17       0%       12       0       12       12       12       0       12       0       12       0       12       12       0       12       0       12       12       0       12       0       12       0       12       12       0       12       12       0       12       10       10       12       10       10       12       10       10       12       10       10       10       10       10       10       10	DS.2022.130 Sealant Ordering (Typical two weeks time, tailor made need th	12		22-Dec-16	06-Jan-17	0%	128			
Glass Wall glazed panel production and Fabrication       48        22-Dec-16       21-Feb-17       0%       75         D5.2022.138 Die Making       12         22-Dec-16       06-Jan-17       0%       123         D5.2022.136 PVF2 Paint Ordering       12         22-Dec-16       06-Jan-17       0%        75         D5.2022.140 Aluminium Extrusion Production       12         22-Feb-17       07-Mar-17       0%        75         G/F Facade - Precast Concrete Tubes , Ceramic Rows Rainscree       Ceramic Rows Rainscree       Ceramic Rows Rainscree       Ceramic Rows Rainscree       Note that the second research and the secon	DS.2022.132 Coated Glass Production	48		22-Dec-16	21-Feb-17	0%	80			
D5.2022.138 Die Making       48       0       22-Dec-16       21-Feb-17       0%       75         D5.2022.136 PVF2 Paint Ordering       12       0       22-Dec-16       06-Jan-17       0%       12       123         D5.2022.136 PVF2 Paint Ordering       12       0       22-Feb-17       07-Mar-17       0%       10       75         G/F Facade - Precast Concrete Tubes , Ceramic Rows Rainscrew       E       E       10       10       07-Mar-17       0%       10	DS.2022.134 Fabrication of Insulated Glass Panel	12		22-Feb-17	07-Mar-17	0%	80			
DS.2022.130       PVF2 Paint Ordering       12       12       22-Dec-16       06-Jan-17       0%       123         DS.2022.140       Aluminium Extrusion Production       12       2       7       0%       75         S/F Facade - Precast Concrete Tubes, Ceramic Rows Rainscree       Categorie       0	Glass Wall glazed panel production and Fabricatioin									
DS.2022.140       Aluminium Extrusion Production       12       22-Feb-17       07-Mar-17       0%       75       0       0       75         G/F Facade - Precast Concrete Tubes , Ceramic Rows Rainscreu       Caranto Rows Rainscreu       Caranto Rows Rainscreu       Caranto Rows       Caranto       Caranto Rows	DS.2022.138 Die Making	48		22-Dec-16	21-Feb-17	0%	75			
G/F Facade - Precast Concrete Tubes , Ceramic Rows Rainscreen Cladding, Ceramic Precast Mull         G/F Facade - Ordering & Production of Material         G/F Facade - Ordering & Production of Material         G/F Facade - Class Production & Fabrication         Ds.2022.154 Coated Glass production and Fabrication         DS.2022.152 Sealant Ordering (Typical two weeks time, tailor made need th       12         DS.2022.158 PVF2 Paint Ordering       12         10       10-Feb-17       0%       10         C/F Facade - Erracotta       12       10       10-Feb-17       0%       10         PS.2022.158 PVF2 Paint Ordering       12       10       10-Feb-17       0%       10       67         C/F Facade - Erracotta       11       10       10-Feb-17       0%       10       10         C/F Facade - Precast Concrete Facade       11       10       10-Feb-17       0%       83       10       10       83       10 </td <td>DS.2022.136 PVF2 Paint Ordering</td> <td>12</td> <td></td> <td>22-Dec-16</td> <td>06-Jan-17</td> <td>0%</td> <td>123</td> <td></td> <td></td> <td></td>	DS.2022.136 PVF2 Paint Ordering	12		22-Dec-16	06-Jan-17	0%	123			
G/F Facade - Ordering & Production of Material         G/F Facade - Glass Production & Fabrication         DS.2022.154       Coated Glass producion       48       0       10-Feb-17       07-Apr-17       0%       -61         G/F Facade - Curtain Wall glazed panel production and Fabrication       0       10-Feb-17       23-Feb-17       0%       -17         DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need th       12       0       10-Feb-17       23-Feb-17       0%       -17         DS.2022.160       Die Making       48       0       10-Feb-17       23-Feb-17       0%       -67         DS.2022.158       PVF2 Paint Ordering       12       0       10-Feb-17       23-Feb-17       0%       -67         DS.2022.168       Ordering of Terracotta       12       0       10-Feb-17       23-Feb-17       0%       -67         DS.2022.168       Ordering of Terracotta       11       0       10-Feb-17       23-Feb-17       0%       -67         DS.2022.168       Ordering of Terracotta       11       0       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       0       10       10-Feb-17       0%       -83	DS.2022.140 Aluminium Extrusion Production	12		22-Feb-17	07-Mar-17	0%	75			
G/F Facade - Glass Production & Fabrication       48       10-Feb-17       07-Apr-17       0%       61         DS.2022.154       Coated Glass production and Fabrication       48       10-Feb-17       23-Feb-17       0%       17         DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need the 12       10       10-Feb-17       23-Feb-17       0%       17         DS.2022.158       PVF2 Paint Ordering       12       10       10-Feb-17       07-Apr-17       0%       17         DS.2022.158       PVF2 Paint Ordering       12       10       10-Feb-17       07-Apr-17       0%       19         G/F Facade - Terracotta       11       10       10-Feb-17       23-Feb-17       0%       19       10         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       10       10         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       18       10         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       183       10       10       10-Feb-17       10       10       10       10       10       10       10       10	G/F Facade - Precast Concrete Tubes,Ceramic Rows Rainscree	n Cladd	ling, Ceramic Pred	ast Mull						
DS.2022.154       Coated Glass producion       48       10       10-Feb-17       07-Apr-17       0%       0       -61         G/F Facade - Curtain Wall glazed panel production and Fabrication       10-Feb-17       23-Feb-17       0%       0       -17         DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need th       12       0       10-Feb-17       07-Apr-17       0%       0       -17         DS.2022.158       Die Making       10       10       10-Feb-17       07-Apr-17       0%       0       -67         DS.2022.158       PVF2 Paint Ordering       12       0       10-Feb-17       23-Feb-17       0%       0       -67         DS.2022.168       Ordering of Terracotta       11       0       10-Feb-17       23-Feb-17       0%       0       -67         DS.2022.168       Ordering of Terracotta       11       0       10-Feb-17       23-Feb-17       0%       -63         G/F Facade - Precast Concrete Facade       11       0       10-Feb-17       23-Feb-17       0%       -63       -67         G/F Facade - Precast Concrete Facade       11       0       10-Feb-17       23-Feb-17       0%       -63       -67         G/F Facade - Precast Concrete Facade <td>G/F Facade - Ordering &amp; Production of Material</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	G/F Facade - Ordering & Production of Material									
G/F Facade - Curtain Wall glazed panel production and Fabrication         DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need th       12       10 - Feb-17       23 - Feb-17       0%       - 77         DS.2022.160       Die Making       48       0       10 - Feb-17       07 - Apr-17       0%       - 67         DS.2022.158       PVF2 Paint Ordering       12       0       10 - Feb-17       23 - Feb-17       0%       - 67         DS.2022.158       PVF2 Paint Ordering       12       0       10 - Feb-17       23 - Feb-17       0%       - 67         DS.2022.168       Ordering of Terracotta       11       10       10 - Feb-17       23 - Feb-17       0%       - 63         G/F Facade - Precast Concrete Facade       11       10       10 - Feb-17       23 - Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10 - Feb-17       23 - Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10 - Feb-17       23 - Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10 - Feb-17       23 - Feb-17       0%       -83	G/F Facade - Glass Production & Fabrication									
DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need th       12       10-Feb-17       23-Feb-17       0%       -17         DS.2022.160       Die Making       48       10-Feb-17       07-Apr-17       0%       -67         DS.2022.158       PVF2 Paint Ordering       12       0       10-Feb-17       23-Feb-17       0%       -19         G/F Facade - Terracotta       11       10       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       -83	DS.2022.154 Coated Glass producion	48		10-Feb-17	07-Apr-17	0%	-61			
DS.2022.152       Sealant Ordering (Typical two weeks time, tailor made need th       12       10-Feb-17       23-Feb-17       0%       -17         DS.2022.160       Die Making       48       10-Feb-17       07-Apr-17       0%       -67         DS.2022.158       PVF2 Paint Ordering       12       0       10-Feb-17       23-Feb-17       0%       -19         G/F Facade - Terracotta       11       10       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       11       10       10-Feb-17       23-Feb-17       0%       -83	G/F Facade - Curtain Wall glazed panel production and Fabricatioin	11								
DS.2022.158       PVF2 Paint Ordering       12       10       10-Feb-17       23-Feb-17       0%       -19         G/F Facade - Terracotta       00       10-Feb-17       23-Feb-17       0%       -19         DS.2022.168       Ordering of Terracotta       11       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       00       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       00       0%       -83		1 1		10-Feb-17	23-Feb-17	0%	-17			
G/F Facade - Terracotta       11       10-Feb-17       23-Feb-17       0%       -83         DS.2022.168       Ordering of Terracotta       11       10       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade       E	DS.2022.160 Die Making	48		10-Feb-17	07-Apr-17	0%	-67			
DS.2022.168 Ordering of Terracotta       11       10-Feb-17       23-Feb-17       0%       -83         G/F Facade - Precast Concrete Facade	DS.2022.158 PVF2 Paint Ordering	12		10-Feb-17	23-Feb-17	0%	-19			
G/F Facade - Precast Concrete Facade G/F Facade - Precast Facade Die Making	G/F Facade - Terracotta									
G/F Facade - Precast Facade Die Making	DS.2022.168 Ordering of Terracotta	11		10-Feb-17	23-Feb-17	0%	-83			
G/F Facade - Precast Facade Die Making	G/F Facade - Precast Concrete Facade									
DS.2022.12 Percast Concrete Mould Making 50 10-Feb-17 10-Apr-17 0% -76										
	DS.2022.17 Percast Concrete Mould Making	50		10-Feb-17	10-Apr-17	0%	-76			



ID Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Curren	Nove 30 06	ember 2016 13 20	27 04	Decemb
Garden Gallery - Terracotta		1									
DS.2022.186 Ordering of Terracotta	11			03-Feb-17	16-Feb-17	0%	-4				
DS.2022.188 Die Making of Terracotta	36			16-Feb-17	30-Mar-17	0%	-4				
erformance Testing Mock Up											
Tower Precast Facade Panels w/ Precast Concrete , Terracotta, I	ightir	ng & Curtair	n Wall								
Tower Facade - Drawing Submission											
DS.2026.2 1st Shop Drawing Submission	11			30-Nov-16	13-Dec-16	0%	-64				-
DS.2026.4 1st Shop Drawing Comment	11			13-Dec-16	28-Dec-16	0%	-64				
DS.2026.6 2nd Shop Drawing Submission	11			28-Dec-16	11-Jan-17	0%	-64				
DS.2026.8 Approval of Performance Mock Up Drawing	11			11-Jan-17	24-Jan-17	0%	-64				
Tower Facade - Submission of Testing Proposal											
DS.2026.10 1st Submission of Testing Proposal	11			24-Jan-17	09-Feb-17	0%	227				
DS.2026.12 1st comment	6			10-Feb-17	16-Feb-17	0%	227				
DS.2026.14 2nd Submission of Testing Proposal	6			16-Feb-17	23-Feb-17	0%	227				
DS.2026.16 Approval of Testing Proposal	6			23-Feb-17	01-Mar-17	0%	227				
Tower Facade - Ordering & Production of Material											
DS.2026.18 Sealant Ordering (Typical two weeks time, tailor made need th	12			30-Nov-16	13-Dec-16	0%	40				
Tower Facade - Glass Production & Fabrication											
DS.2026.26 Coated Glass Production	48			24-Jan-17	24-Mar-17	0%	-64				
Tower Facade - Curtain Wall glazed panel production and Fabricatio	oin										
DS.2026.22 Die Making	48			30-Nov-16	27-Jan-17	0%	-24				-
DS.2026.24 PVF2 Paint Ordering	12			30-Nov-16	13-Dec-16	0%	24				
DS.2026.28 Aluminium Extrusion Production	12			01-Feb-17	14-Feb-17	0%	-24				
DS.2026.30 Application of PVF2 Coating	6			15-Feb-17	21-Feb-17	0%	-24				
Tower Facade - Terracotta											
DS.2026.36 Ordering of Terracotta	11			30-Nov-16	13-Dec-16	0%	-48				
DS.2026.38 Die Making of Terracotta	24			13-Dec-16	13-Jan-17	0%	-48				-
DS.2026.40 Productioin & delivery of Terracotta Mockup Sample	24			13-Jan-17	14-Feb-17	0%	-48				-
Tower Facade - Precast Concrete Facade											
Tower Facade - Precast Facade Die Making											
DS.2026.42 Precast Concrete Mould Making	95			30-Nov-16	27-Mar-17	0%	-84				-
Tower Facade - Installation											
DS.2026.50 Erection of Testing Chamber	32			30-Nov-16	09-Jan-17	0%	18				-
DS.2026.52 Bracket Installation	8			10-Jan-17	18-Jan-17	0%	18				
Podium Facade Wall Performance Testing											
Podium Facade - Drawing Submission											
DS.2026.58 1st PMU Drawing Submission	11			20-Dec-16	05-Jan-17	0%	-12				
DS.2026.60 1st PMU Drawing Comment	11			05-Jan-17	18-Jan-17	0%	-12				
DS.2026.62 2nd PMU Drawing Submission	11			18-Jan-17	03-Feb-17	0%	-12				
DS.2026.64 Approval of Performance Mock Up Drawing	11			03-Feb-17	16-Feb-17	0%	-4				
Podium Facade - Submission of Testing Proposal											
DS.2026.66 1st Submission of Testing Proposal	11			16-Feb-17	01-Mar-17	0%	-4				
Podium Facade - Ordering & Production of Material											
DS.2026.74 Sealant Ordering (Typical two weeks time, tailor made need th	12			30-Nov-16	13-Dec-16	0%	92	1			<b>—</b>



D Activity Name	Ori. BaseLine Sta Dur.	art BaseLine Forecast / Actual Finish Start	Forcast / Actual Finish	% Compl.	Finish Current Variance Float 30	November 2016	27	Decemb 04 11	ber 2016 18 2
Podium Facade - Glass Production & Fabrication									
DS.2026.76 Coated Glass Producion	48	30-Nov-16	27-Jan-17	0%	80				
DS.2026.78 Fabrication of Insulated Glass Panel	12	16-Feb-17	02-Mar-17	0%	66				
Podium Facade - Curtain Wall glazed panel production a	and Fabricatioin								
DS.2026.80 Die Making	48	30-Nov-16	27-Jan-17	0%	38				
DS.2026.82 Aluminium Extrusion Production	12	03-Feb-17	17-Feb-17	0%	36				
Podium Facade - Terracotta									
DS.2026.90 Ordering of Terracotta	11	03-Feb-17	16-Feb-17	0%	-12				
DS.2026.92 Die Making of Terracotta	36	16-Feb-17	30-Mar-17	0%	-12				
Podium Facade - Precast Concrete Facade	· · · · · ·								
Podium Facade - Precast Facade Die Making									
DS.2026.1( Percast Concrete Mould Making	96	30-Nov-16	28-Mar-17	0%	2				
Kinked Glass Wall with T Mullion and Reflective Glas	s at B1,CW-02b								
Kinked Glass Wall - Drawing Submission									
DS.2026.122 1st Shop Drawing Submission	11	17-Dec-16	03-Jan-17	0%	83				
DS.2026.124 1st Shop Drawing Comment	11	03-Jan-17	16-Jan-17	0%	83				
DS.2026.126 2nd Shop Drawing Submission	11	16-Jan-17	01-Feb-17	0%	83				
DS.2026.128 Approval of Performance Mock Up Drawing	11	02-Feb-17	15-Feb-17	0%	83				
Kinked Glass Wall - Submission of Testing Proposal	· · · · · · · · · · · · · · · · · · ·								
DS.2026.130 1st Submission of Testing Proposal	11	15-Feb-17	28-Feb-17	0%	83				
Kinked Glass Wall - Ordering & Production of Materi	al			1 1					
DS.2026.138 Sealant Ordering (Typical two weeks time, tailor m	nade need th 12	15-Feb-17	01-Mar-17	0%	105				
Kinked Glass Wall - Glass Production & Fabrication					/				
DS.2026.140 Coated Glass Production	48	30-Nov-16	27-Jan-17	0%	117				
DS.2026.142 Fabrication of Insulated Glass Panel	12	01-Feb-17	14-Feb-17	0%	117				
Kinked Glass Wall - Curtain Wall glazed panel productio	n and Fabricatioin								
DS.2026.146 Die Making	48	30-Nov-16	27-Jan-17	0%	112				
DS.2026.144 PVF2 Paint Ordering	49	30-Nov-16	01-Feb-17	0%	123				+ + +
DS.2026.148 Aluminium Extrusion Production	12	15-Feb-17	01-Mar-17	0%	99				
Kinked Glass Wall - T Steel Mullion Production									
DS.2026.154 Order of Paint	24	30-Nov-16	29-Dec-16	0%	173				
DS.2026.156 Painting of Steel Mullion	4	30-Dec-16	04-Jan-17	0%	173				
Kinked Glass Wall - Installation									
DS.2026.160 Installation on Mock Up	11	05-Jan-17	18-Jan-17	0%	173				
Glass Wall with Ceramic Precast Mullions at ground	FIr Main Enterance,CW-04	1							
Glass Wall with PC Mullions - Drawing Submission									
DS.2026.168 1st Shop Drawing Submission	11	30-Dec-16	13-Jan-17	0%	80				
DS.2026.170 1st Shop Drawing Comment	11	13-Jan-17	26-Jan-17	0%	80				
DS.2026.172 2nd Shop Drawing Submission	11	26-Jan-17	11-Feb-17	0%	80				
DS.2026.174 Approval of Performance Mock Up Drawing	11	11-Feb-17	24-Feb-17	0%	80				
Glass Wall with PC Mullions - Glass Production & Fa	brication								
DS.2026.176 Coated Glass Producion	72	30-Nov-16	28-Feb-17	0%	77				
Glass Wall with PC Mullions - Glazed Panel producti	on and Fabricatioin								
DS.2026.180 Die Making	36	10-Feb-17	23-Mar-17	0%	27				

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ty ID	Activity Name	· · · · · · · · · · · · · · · · · · ·	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	%	Finish Current		ember 2016		Decem 04 11	ber 2016	25 0	Jan	uary 2017	22 29	February		larch 2 26
DS.2026.182	2 Aluminium Extrusio	on Production	24		1 111311	24-Feb-17	23-Mar-17	0%	27	50 00	13 20	21	04 11	10	25 0	1 00	15	22 29	05 12	2 19	20
Glass Wall	with PC Mullion	s - Precast Concrete Facad	e																		
Glass Wall	with PC Mullions	- Precast Facade Die Making																			
DS.2026.188	8 Percast Concrete M	ould Making	24			10-Feb-17	09-Mar-17	0%	46										-		
Vertical Glas	ss Wall at Skylig	ht Gallery,CW-10																			
Vertical Gla	ass Wall @ Galle	ry - Drawing Submission																			
DS.2026.204	1st Shop Drawing S	Submission	11			20-Dec-16	04-Jan-17	0%	3							l 1st Sl	hop Draw	ing Subr	nission		
DS.2026.206	5 1st Shop Drawing (	Comment	11			05-Jan-17	18-Jan-17	0%	3								🛑 1st	Shop Dr	wing Cor	nment	
DS.2026.208	2nd Shop Drawing	Submission	11			19-Jan-17	04-Feb-17	0%	3										2nd Sho	op Drawii	ng Sut
DS.2026.210	Approval of Perform	nance Mock Up Drawing	11			06-Feb-17	18-Feb-17	0%	3											Appro	oval of
Vertical Gla	ass Wall @ Galle	ry - Alum Frame	,	J				11													
DS.2026.212	Die Making		38			06-Dec-16	21-Jan-17	0%	48									Die Makin	g		
DS.2026.214	Aluminium Extrusio	on Production	25			18-Feb-17	20-Mar-17	0%	3		÷										
3/F Plaza Sk	ylight & Terrace	,SK-01			1																
DS.2026.224	Glass Production &	Fabrication	24			06-Dec-16	05-Jan-17	0%	173							Glass	s Product	ion & Fal	rication		
3/F Plaza Sl	kylight - Drawing	g Submission	,	J	1			<u> </u>													
DS.2026.228	1st Shop Drawing S	Submission	11			06-Dec-16	19-Dec-16	0%	94					💻 1st	Shop Dr	awing	Submissi	on			
DS.2026.230	) 1st Shop Drawing (	Comment	11			19-Dec-16	04-Jan-17	0%	94							1st Sl	nop Draw	ving Comi	nent		
DS.2026.232	2 2nd Shop Drawing	Submission	11			04-Jan-17	17-Jan-17	0%	94								🛑 2nd	Shop Dr	wing Sul	omission	
DS.2026.234	Approval of Perform	ance Mock Up Drawing	11			17-Jan-17	02-Feb-17	0%	94								-		Approval	of Perfor	mance
3/F Plaza Sl	kylight - Alum Fi	ame																			
DS.2026.236			36			02-Feb-17	16-Mar-17	0%	94												
DS.2026.238	Aluminium Extrusio	on Production	24			16-Feb-17	16-Mar-17	0%	94												
Bulk Produc	tion and Fabrica	ton																			
Tower Glaze	ed Precast Facad	le Panels																			
Tower Glaz	ed - Glass Produ	uction & Fabrication																			
	Coated Glass Produ		97			30-Nov-16	29-Mar-17	0%	134												
Tower Glaz	ed - Curtain Wal	I glazed panel production a	and Fabricatioi	n																	
DS.2208.16			47			10-Feb-17	06-Apr-17	0%	1											_	
Tower Glaz	ed - Tarracotta F	Production																			
DS.2208.10	Die Making		47			13-Jan-17	11-Mar-17	0%	12							1					
DS.2208.12	Terracotta Producti	on	143			14-Feb-17	08-Aug-17	0%	12												
Podium Gla	zed Precast Fac	ade Panel																			
Podium Gla	azed - Glass Pro	duction & Fabrication																			
	Coated Glass Produ		97			30-Nov-16	29-Mar-17	0%	125												
DS.2258.10	Fabrication of Insu	ated Glass Panel	75			08-Feb-17	12-May-17	0%	125												
Podium Gla	azed - Curtain W	all glazed panel production	and Fabricatio	oin																	
DS.2258.12			73			30-Nov-16	01-Mar-17	0%	29									 	·		📫 Di
	azed - Terracotta	Production																			
DS.2258.16			48			30-Nov-16	27-Jan-17	0%	42									💻 Die I	laking		
	3rd/Flr & Vertica	I Glass Wall		ļ																	
	allery (CW-01 & 0																				
	uction & Fabricati	•									 										
		iction	134				18-May-17		137												

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ty ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Cur Variance Flo	rent oat 3	vember 20	20	27		ember 2016 11 18
	Frame Production and Fabrication													
	38 Die Making	37			12-Jan-17	27-Feb-17	0%	15	57					
	I with Ceramic Mullion (G/F to 1/F), CW-04 to 05d									 				
	oduction & Fabrication													
	84 Coated Glass Production	90			10-Feb-17	01-Jun-17	0%	-4	.3					
Aluminun	n Frame Production and Fabricatioin													
DS.2258.2	96 Die Making	45			10-Feb-17	03-Apr-17	0%	1	9					
Terracotta	a Production and Fabrication									 				
DS.2258.3	04 Die Making	60			10-Feb-17	25-Apr-17	0%	-3	2					
Glass Wal	I with T Mullion (Kinked & Straight B1/F to G/F), CV	V-01a to	03d											
Aluminun	n Frame Production and Fabricatioin													
DS.2258.4	28 Die Making	36			10-Feb-17	23-Mar-17	0%	5	0					
DS.2258.4	30 Aluminium Extrusion Production	24			24-Feb-17	23-Mar-17	0%	5	0					
<b>T-Painted</b>	GMS Mullion, Transom and Brackets													
DS.2258.4	38 GMS Fabrication	120			09-Feb-17	08-Jul-17	0%	4	0					
Ceramic C	concrete Tubes at G/F (Internal & External),CE-01a,	01b,02a												
Terracotta	a Production													
DS.2258.1	16 Die Making	92			09-Feb-17	03-Jun-17	0%	-2	9					
Bulk Produ	uction, Assembly & Delivery to Site				)					 -+				
DS.2208	Terracotta Production & Fabrication	270	01-Dec-16	27-Aug-17	01-Dec-16*	27-Aug-17	0%	0 -3	3					
DS.2228	Curtain Wal / Glazed Panel Production & Fabrication	217	01-Jan-17	05-Aug-17	01-Jan-17	05-Aug-17	0%	0 -3	3					
DS.2258	Precast Concrete Facade	242	01-Jan-17	30-Aug-17	01-Jan-17	30-Aug-17	0%	0 -3	3					
DS.2238	T Steel Mullion Production & Fabrication	180	01-Jan-17	29-Jun-17	01-Jan-17	29-Jun-17	0%	0 -3	3					
S.2248	LED Lightings Production & Fabrication	180	01-Jan-17	29-Jun-17	01-Jan-17	29-Jun-17	0%	0 -3	3	 				
DS.2218	Glass Production & Fabrication	210	01-Jan-17	29-Jul-17	16-Jan-17	14-Aug-17	0%	-16 -4	.9					
	asteelisa) External Facade for CSF Bldg					5								
	Wall (South Ele. 6/F-7/F,North Ele.6/F-8/F,South Ele	G/F)												
	Wall Shopdawing Submission & Approval													
DS.2260.12		11			12-Dec-16	24-Dec-16	0%	7	3	 			•••••	
DS.2260.14		5			27-Dec-16	31-Dec-16	0%	7						
DS.2260.14		11			03-Jan-17	16-Jan-17	0%	7						
	re - FAC-LV-03 (Additional Works)	11			55 Juli 17	10 Jun 1/	0 /0	· · · · · · · · · · · · · · · · · · ·	-					
DS.2260.18		11			30-Nov-16	12-Dec-16	0%	5	1					1st Shop
DS.2260.18		11			13-Dec-16	27-Dec-16		7		 				100 0100
							0%							
DS.2260.21		6			28-Dec-16	04-Jan-17	0%	7						
DS.2260.22		11			05-Jan-17	18-Jan-17	0%	7	T					
	ed BD Submission & Approval					10.0	0.01	-						BD Draw
DS.2260.24					30-Nov-16	13-Dec-16	0%	9		 				во ргам
DS.2260.26		11			13-Dec-16	28-Dec-16	0%	9						
DS.2260.28					28-Dec-16	11-Jan-17	0%	9						
DS.2260.30		3			11-Jan-17	14-Jan-17	0%	9						
DS.2260.32	2 BD Submission & Approval	48			14-Jan-17	15-Mar-17	0%	9	8					
CSF Glass	Wall BD Submission & Approval													
DS.2260.38	BD Drawing Preparation & 1st BD Submission to Consultants	: 11			30-Nov-16	13-Dec-16	0%	5	1					BD Draw

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ty ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish Current Variance Float 30	November 2016	December 201 27 04 11 18	25 01	
DS.2260.40	BD Drawing submission 1st Comments	11			13-Dec-16	28-Dec-16	0%	51			BD Dra	awing submissio
DS.2260.42	BD Drawing Preparation & 2nd BD Submission to Consultants	11			28-Dec-16	11-Jan-17	0%	51				BD Drawing
DS.2260.44	BD Drawing submission 2nd Comments	11			11-Jan-17	24-Jan-17	0%	51				E
DS.2260.46	BD Drawing Preparation & 3rd BD Submission to Consultants	11			24-Jan-17	09-Feb-17	0%	51				
DS.2260.48	RSE Submission to BD	3			10-Feb-17	14-Feb-17	0%	51				
DS.2260.50	BD Submission & Approval	48			14-Feb-17	12-Apr-17	0%	51				
CSF Glass W	all Performance Testing											
Drawing Sub	omission											
DS.2260.58	1st Shop Drawing Submission	11			24-Jan-17	09-Feb-17	0%	68				
DS.2260.60	1st Shop Drawing Comment	11			10-Feb-17	23-Feb-17	0%	68				
DS.2260.62	2nd Shop Drawing Submission	11			23-Feb-17	08-Mar-17	0%	68				
Ordering & I	Production of Material											
Glass Produ	ction & Fabrication											
DS.2260.66	Coated Glass Production	48			18-Jan-17	18-Mar-17	0%	71				
Curtain Wall	glazed panel production and Fabricatioin											
DS.2260.70	Die Making	48			13-Dec-16	13-Feb-17	0%	93				
DS.2260.72	PVF2 Paint Ordering	49			13-Dec-16	14-Feb-17	0%	109				
DS.2260.74	Aluminium Extrusion Production	17			14-Feb-17	04-Mar-17	0%	93				
Bulk Orderin	g & Production of Material											
Curtain Wall	glazed panel production and Fabricatioin											
DS.2260.92	Die Making	48			13-Dec-16	13-Feb-17	0%	136				
DS.2260.94	PVF2 Paint Ordering	49			13-Dec-16	14-Feb-17	0%	152				
DS.2260.96	Aluminium Extrusion Production	17			14-Feb-17	04-Mar-17	0%	136				
Glass Produ	ction & Fabrication											
DS.2260.102	Coated Glass Production	48			18-Jan-17	18-Mar-17	0%	114				
(Redland) P	recast Facade for M+ Podium & CSF Bldg											
(Redland) Ge	neral Submission											
(Redland) Pr	oject Quality Plan											
DS.3240	PQP - 2nd Submission and Approval	12			30-Nov-16	13-Dec-16	0%	-20		PQP -	2nd Submis	sion and Approva
DS.3250	PQP - Approval of Project Quality Plan	0				13-Dec-16	0%	-23		◆ PQP -	Approval of I	Project Quality P
(Redland) Pr	oduction Method Statement							· · · · · · · · · · · · · · · · · · ·				
DS.3290	PMS - 2nd Submission and Approval	12			30-Nov-16	13-Dec-16	0%	-20		PMS -	2nd Submis	sion and Approv
DS.3300	PMS - Approval of Production Method Statement	0				13-Dec-16	0%	-23		◆ PMS -	Approval of	Production Meth
(Redland) Dra	awing Submission and Approval		1									
DS.3340	2nd Submission and Approval	12			30-Nov-16	13-Dec-16	0%	623		2nd S	ubmission ar	nd Approval
DS.3350	Approval of Schematic Design Drawings	0				13-Dec-16	0%	773		◆ Appro	val of Schem	natic Design Drav
(Redland) BD	Submission and Approval											
(Redland) BD	) Submission											
DS.3420	BD Comments and review	36			30-Nov-16	13-Jan-17	0%	599				BD Comm
DS.3410	BD Submission	0			30-Nov-16		0%	741		BD Submission,	30-Nov-16	
DS.3430	Approval of BD Submission	0				13-Jan-17	0%	742				♦ Approval of
(Redland) Fix	king Layout for ARUP's Onward Submission to BD											
DS.3450	BD Comments and review	36			30-Nov-16	13-Jan-17	0%	599				BD Comm
DS.3440	BD Submission	0			30-Nov-16		0%	741		BD Submission,	30-Nov-16	

RSES	2nd Comm g Preparatio ubmission to Drawing Sub 1st Shop D
27       04       11       18       25       01       08       15       22       29       05       12       15         BD       Drawing submission       1st Comments       BD       BD       Drawing Preparation & 2nd Bl         BD       Drawing       BD       Drawing submission       BD       Drawing submission         BD       Drawing       BD       Drawing submission       BD       Drawing submission         BD       Drawing       BD       Drawing submission       BD       Drawing submission         BD       Drawing       BD       Drawing       BD       Drawing submission         BD       Drawing       BD       Drawing       BD       Drawing         BD       Drawing       BD       Drawing       BD       Drawing         BD       Drawing       BD       Drawing       BD       Drawing         BD       Drawing       Die       Ma       Die       Ma         Die       Ma       Die       Ma       PVF2       Die         Die       Ma       PVF2       Die       Ma       PVF2         Die       PQP - 2nd Submission and Approval       Die       Ma       Die	26 05 Submission 2nd Comm g Preparatio Jbmission to Drawing Sub 1st Shop D 2
BD Drawing submission 1st Comments BD Drawing Preparation & 2nd BJ BD Drawing submissio BD Drawing Submissio BD Drawing SES S S S S S S S S S S S S S S S S S	Submission 2nd Comm g Preparatio ubmission to Drawing Sub 1st Shop D
BD Drawing Preparation & 2nd Bi BD Drawing submissio BD Drawing RSE S Ist Shop Die Ma PVF2 Die Ma PVF2 Die Ma PVF2	2nd Comm g Preparatio ubmission to Drawing Sub 1st Shop D
BD Drawing submissio BD Drawing RSE S S Die Ma PVF2 Die Ma PVF2	2nd Comm g Preparatio ubmission to Drawing Sub 1st Shop D
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PQP - 2nd Submission and Approval	king
PQP - 2nd Submission and Approval	aint Orderir
	Alur
POP - Approval of Project Quality Plan	
PMS - 2nd Submission and Approval	
<ul> <li>PMS - Approval of Production Method Statement,</li> </ul>	
2nd Submission and Approval	
◆ Approval of Schematic Design Drawings,	
BD Comments and review	
BD Submission, 30-Nov-16	
<ul> <li>Approval of BD Submission,</li> </ul>	
BD Comments and review	
BD Submission, 30-Nov-16	

ID İ	Activity Name	Ori. BaseLine Start	BaseLine Forecast / Actual	Forcast / Actual		ish Current	November 2016 December 2016 January 2017 February 2017
DS.3460	Approval of BD Submission	Dur. 0	Finish Start	Finish 13-Jan-17	Compl. Varia	ance Float 30 742	06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 ◆ Approval of BD Submission,
		0		12-1911-17	0.70	742	
	op Drawings 2nd Submission and Approval	12	14-Dec-16	29-Dec-16	0%	-20	2nd Submission and Approval
	Approval of Shop Drawings	0		29 Dec 10 29-Dec-16	0%	-25	◆ Approval of Shop Drawings,
	Ik Production, Fabrication and Delivery	U		25 Dec 10	0 /0	25	
,	Procurements of Materials	90	30-Dec-16	22-Apr-17	0%	-20	
	Fabrication of Precast Panels	120	25-Feb-17	24-Jul-17	0%	-20	
	Steel Trusses						
	Steel Tuss - Procurement, Fabrication & Delivery	150	29-Jan-16 A	15-Dec-16	90%	-77	Steel Tuss - Procurement, Fabrication & Delivery, Steel Tu
	ocurements						
	Steel Tuss - Procurement, Fabrication & Delivery	150 14-Feb-16	12-Jul-16 01-Oct-15 A	15-Dec-16	85% -1	30 -77	DS.1040, Steel Tuss - Procurement, Fabrication & Deliver
	& Delivery To Site						
	Support System for Trusses - Proprietary & Non Prop	orietary System					
	Fabrication & Delivery of non-proprietary system	50	11-Jun-16 A	07-Dec-16	95%	-91	Fabrication & Delivery of non-proprietary system, Fabrication & D
anger Colu							
-	Fabrication of Hanger Column Suspended from RC	43	28-Nov-16 A	17-Dec-16	30%	-33	Fabrication of Hanger Column Suspended from RC, Fabr
S.1040.80	Fabrication of Hanger Column Suspended from mega Truss	43	28-Nov-16 A	17-Dec-16	30%	-17	Fabrication of Hanger Column Suspended from mega Tr
S.1040.86	Delivery of hanger column	0	18-Dec-16		0%	-38	Delivery of hanger column, 18-Dec-16
omposite C	Column						
-	Composite Column Fabrication	34	02-Jan-16 A	02-Dec-16	98%	-69	Composite Column Fabrication, Composite Column Fabrication
eel Truss S	Support Fabrication						
	Steel Truss Support Fabrication for Truss 4 (*C94 & *C96)	21	19-Aug-16 A	09-Dec-16	99%	-20	Steel Truss Support Fabrication for Truss 4 (*C94 & *C96), Ste
teel Truss S	Support Delivery to Site						
	Steel Truss Support for Truss # 3 (*C85 & C86)	0	18-Nov-16 A		100%		◆ Steel Truss Support for Truss # 3 (*C85 & C86), 18-Nov-16 A, Steel Truss Supp
S.1110.10	Steel Truss Support for Truss # 4 (*C94 & *C96)	0	10-Dec-16		0%	-23	Steel Truss Support for Truss # 4 (*C94 & *C96), 10-Dec-16
eel Truss I	Members Fabrication						
S.1080	Steel Truss Fabrication for Truss # 3	69	23-Apr-16 A	14-Dec-16	97%	-66	Steel Truss Fabrication for Truss # 3, Steel Truss Fabricatio
S.1100	Steel Truss Fabrication for Truss # 4	69	09-May-16	14-Dec-16	95%	-15	Steel Truss Fabrication for Truss # 4, Steel Truss Fabricatio
eel Truss I	Members Delivery to Site		Δ				
S.1140.10	Steel Truss Members for Truss # 5 (1st Delivery)	0	25-Nov-16 A		100%		Steel Truss Members for Truss # 5 (1st Delivery), 25-Nov-16 A, Steel Trus
S.1070.10	Steel Truss Members for Truss # 1	0	30-Nov-16		0%	-92	Steel Truss Members for Truss # 1, 30-Nov-16
S.1080.10	Steel Truss Members for Truss # 2	0	30-Nov-16		0%	-79	Steel Truss Members for Truss # 2, 30-Nov-16
S.1100.10	Steel Truss Members for Truss # 3	0	15-Dec-16		0%	-29	\$teel Truss Members for Truss # 3, 15-Dec-16
S.1120.10	Steel Truss Members for Truss # 4	0	15-Dec-16		0%	-17	◆ Steel Truss Members for Truss # 4, 15-Dec-16
ilding Sei	rvices						
/AC							
5.3070	MVAC - Shop Drawings, Materials & Method Statements Submis	120 01-Dec-15	29-Mar-16 01-Dec-15 A	17-Feb-17	44% -2	64 -37	DS.307
5.3080	MVAC - CA Review & Comments	30 30-Mar-16	28-Apr-16 01-Apr-16 A	06-Mar-17	33% -2	53 -37	
5.3090	MVAC - Incorporate Comments & Resubmit	30 29-Apr-16	28-May-16 15-Apr-16 A	22-Mar-17	13% -2	43 -37	
5.3100	MVAC - CA Review & Approval	30 29-May-16	27-Jun-16 02-May-16	08-Apr-17	26% -2	33 -37	
5.3110	MVAC - Procurement and Delivery	180 28-Jun-16	24-Dec-16 01-Sep-16 A	19-May-17	8% -1	46 -50	
ectrical and	d ELV Systems						
S.4120	Elect & ELV Systems - Shop Drawings and Materials Submission	120 01-Dec-15	29-Mar-16 01-Dec-15 A	21-Jan-17	57% -2	44 -32	DS.4120, Elect & ELV System
S.4130	Elect & ELV Systems - CA Review & Comments	30 30-Mar-16	28-Apr-16 01-Apr-16 A	10-Feb-17	48% -2	33 -32	DS.4130, El

iy ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float	Nov 30 06	vember 20 <sup>-</sup>		[ 7   04	ecember 20	016 8 25	Janu 01 08	ary 2017	Fel 29 05	bruary 2017   12   19	larch
DS.4140	Elect & ELV Systems - Incorporate Comments & Resubmit	30	29-Apr-16	28-May-16	15-Apr-16 A	27-Feb-17	27%	-223												DS.
DS.4150	Elect & ELV Systems - CA Review & Approval	30	29-May-16	27-Jun-16	16-May-16	15-Mar-17	21%	-213	-32											
DS.4160	Elect & ELV Systems - Procurement and Delivery	150	28-Jun-16	24-Nov-16	15-Dec-16	13-May-17	0%	-170	-44			_								
Fire Servic	es																			
DS.4010	FS - Shop Drawings and Materials Submission and Approval	120	01-Dec-15	29-Mar-16	01-Dec-15 A	04-Feb-17	45%	-253	-41									DS.	4010, FS	- Shop l
DS.4020	FS - CA Review & Comments	30	30-Mar-16	28-Apr-16	15-Apr-16 A	21-Feb-17	40%	-242	-41											D\$.402
DS.4030	FS - Incorporate Comments & Resubmit	30	29-Apr-16	28-May-16	22-Apr-16 A	09-Mar-17	17%	-232	-41											
DS.4040	FS - CA Review & Approval	30	29-May-16	27-Jun-16	16-May-16	25-Mar-17	23%	-222	-41											
DS.4050	FS - Procurement and Delivery	150	28-Jun-16	13-Jan-17	26-Dec-16	24-May-17	0%	-131	-55											
Plumbing a	and Drainage																			
DS.3010	Plumbing & Drainage - Shop Drawings, Materials & Method Stat	90	31-Dec-15	29-Mar-16	30-Dec-15 A	21-Jan-17	42%	-244	-25								DS.30	010, Plum	nbing & Dr	ainage
DS.3020	Plumbing & Drainage - CA Review & Comments	30	30-Mar-16	28-Apr-16	01-Apr-16 A	10-Feb-17	39%	-233	-17										DS 3020	, Plumb
DS.3030	Plumbing & Drainage - Incorporate Comments & Resubmit	30	29-Apr-16	28-May-16	14-Apr-16 A	27-Feb-17	14%	-223	-17											<b>D</b> S
DS.3040	Plumbing & Drainage - CA Review & Approval	30	29-May-16	27-Jun-16	02-May-16	15-Mar-17	25%	-213	-17											
DS.3050	Plumbing & Drainage - Procurement and Delivery	150	28-Jun-16	24-Nov-16	31-Oct-16 A	28-Apr-17	2%	-155	-29	-		_ :								
Mechanica	I and Lifting Platform																			
DS.5210	Lifting Platform - Shop Drawings, Materials & Method Statemen	90	01-Dec-15	28-Feb-16	01-Dec-15 A	27-Dec-16	70%	-246	571						D9	6.5210, Lif	ting Platform	- Shop D	rawings, N	1aterial
DS.5220	Lifting Platform - CA Review & Comments	30	29-Feb-16	29-Mar-16	15-Apr-16 A	13-Jan-17	30%	-237	571								DS.5220, Li	fting Platf	orm - CA	Review
DS.5230	Lifting Platform - Incorporate Comments & Resubmit	30	30-Mar-16	28-Apr-16	30-Apr-16 A	02-Feb-17	30%	-226	571									🗕 DS.5	230, Liftin	g Platfo
DS.5240	Lifting Platform - CA Review & Approval	30	29-Apr-16	28-May-16	16-May-16	18-Feb-17	3%	-216	571										DS	5.5240,
Lifts and E	scalator				Λ															
DS.5110	Lift & Escalator - Shop Drawings, Materials & Method Statemen	90	01-Dec-15	28-Feb-16	01-Dec-15 A	12-Jan-17	54%	-259	-8								DS.5110, Lif	t & Escala	itor - Shor	) Drawii
DS.5120	Lift & Escalator - CA Review & Comments	30	29-Feb-16	29-Mar-16	15-Apr-16 A	01-Feb-17	51%	-250	17									<b>D</b> S.51	20, Lift &	Escalat
DS.5130	Lift & Escalator - Incorporate Comments & Resubmit	30	30-Mar-16	28-Apr-16	30-Apr-16 A	17-Feb-17	31%	-239	17										DS	5130,
DS.5140	Lift & Escalator- CA Review & Approval	30	29-Apr-16	28-May-16	16-May-16	06-Mar-17	20%	-229	17											
Art Lift (LT	-11 & LT-13)																			
DS.5020	Art Lift - Shop Drawings, Materials & Method Statements Subm	90	01-Dec-15	28-Feb-16	01-Dec-15 A	20-Dec-16	75%	-242	-18						D\$.502	0, Art Lift -	Shop Drawir	ngs, Mate	rials & Me	thod St
DS.5025	Art Lift - CA Review & Comments	30	29-Feb-16	29-Mar-16	15-Apr-16 A	29-Dec-16	75%	-225	-18							DS.5025, A	rt Lift - CA R	eview & C	omments	, Art Lif
DS.5030	Art Lift - Incorporate Comments & Resubmit	54	30-Mar-16	28-Apr-16	03-Oct-16 A	16-Jan-17	75%	-214	-18								<b>D</b> S.5030,	Art Lift -	Incorpora	te Comi
DS.5040	Art Lift - CA Review & Approval	30	29-Apr-16	28-May-16	17-Jan-17	23-Feb-17	0%	-220	-18											DS.50
DS.5050	Art Lift - Procurement and Delivery	300	29-May-16	24-Mar-17	24-Feb-17	20-Dec-17	0%	-271	-21					<u> </u>					<u> </u>	
ABWF and	d Fitout																			
Ceramic Ti	le																			
DS.6010	Ceramic Tile - Shop Drawings, Materials Sample Submission	90	30-Nov-15	27-Feb-16	30-Nov-15 A	09-Dec-16	90%	-233	-10					DS.6010	), Ceram	ic Tile - Sh	op Drawings	, Material	s Sample '	Submis
DS.6020	Ceramic Tile - CA Review & Comments	30	28-Feb-16	28-Mar-16	10-Dec-16	17-Jan-17	0%	-241	-10								<b>D</b> \$.6020	, Ceramic	Tile - CA	Review
DS.6030	Ceramic Tile - Incorporate Comments & Resubmit	30	29-Mar-16	27-Apr-16	18-Jan-17	24-Feb-17	0%	-246	-10										<del></del>	<b>D</b> \$.6
DS.6040	Ceramic Tile - CA Review & Approval	30	28-Apr-16	27-May-16	25-Feb-17	31-Mar-17	0%	-252	-10											
Soft and F	lard Landscaping																			
DS.7000	Landscaping - Award Specialist Subcontractor	0	18-Apr-16		30-Nov-16		0%	-226	9				Landso	aping - A	ward Sp	ecialist Sub	contractor, L	andscapii	ng - Award	l Specia
DS.7010	Landscaping - Shop Drawings, Materials & Method Statements	90	18-Apr-16	16-Jul-16	30-Nov-16	21-Mar-17	0%	-203	8										<u> </u>	
esian D	etailing / Buildability Co-ordination																			
	bordination for BIM / CSD / CBWD																			
epartial 60											1 1		1 1	1 1			1 1 1	1 1	1 1	

D	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance		November 2016 06 13 20	27 04	ecember 2016		January 2017 08   15   2		February 2017	larc 9 26
300.0030	Review, resubmission and approval for BIM / CSD / CBWD at B1		30-Nov-15	29-Dec-15	30-Nov-15 A	16-Dec-16	_	-287								proval for BI	
+ Podium																	
00.0040	Preparation and submission for BIM / CSD / CBWD at G/F (Tear	60	30-Nov-15	28-Jan-16	30-Nov-15 A	17-Dec-16	80%	-263	-74			B00.0	040, Prepar	ation and su	Jbmission fr	or BIM / CSI	) / CBW
00.0080	Preparation and submission for BIM / CSD / CBWD at 1M/F (Tea	60	29-Jan-16	28-Mar-16	30-Jul-16 A	17-Dec-16	90%	-218	-74			воо.0	080, Prepar	ation and su	Jbmission fr	or BIM / CSI	) / СВИ
00.0050	Preparation and submission for BIM / CSD / CBWD at 1/F (Tean	60	30-Nov-15	28-Jan-16	15-Aug-16 A	17-Dec-16	80%	-263	-51			воо.0	050, Prepar	ation and su	Jbmission fr	or BIM / CSI	) / СВИ
00.0100	Review, resubmission and approval for BIM / CSD / CBWD at 11	30	29-Mar-16	27-Apr-16	15-Aug-16 A	17-Dec-16	20%	-193	-16			воо.0	100, Reviev	v, resubmiss	sion and ap	proval for B	ıм / cs
00.0090	Preparation and submission for BIM / CSD / CBWD at 2/F (Tean	60	29-Jan-16	28-Mar-16	01-Nov-16 A	30-Dec-16	50%	-227	-51				воо.оо	90, Prepara	tion and su	Ibmission fo	r BIM /
00.0070	Review, resubmission and approval for BIM / CSD / CBWD at 1/	30	29-Jan-16	27-Feb-16	14-Nov-16 A	24-Dec-16	20%	-245	-39			E	300 0070, I	Review, resu	ubmission a	ind approval	for BIN
00.0060	Review, resubmission and approval for BIM / CSD / CBWD at G	30	29-Jan-16	27-Feb-16	30-Nov-16	06-Jan-17	0%	-254	-14				В	00.0060, Re	eview, resul	bmission an	d appro
00.0110	Review, resubmission and approval for BIM / CSD / CBWD at 2/	30	29-Mar-16	27-Apr-16	30-Nov-16	06-Jan-17	0%	-207	-26				В	00.0110, Re	eview, resul	bmission an	d appro
00.0120	Preparation and submission for BIM / CSD / CBWD at 3/F (Tean	60	29-Mar-16	27-May-16	30-Nov-16	14-Feb-17	0%	-213	-74							<b>—</b> воо.	0120,
00.0130	Review, resubmission and approval for BIM / CSD / CBWD at 3/	30	28-May-16	26-Jun-16	15-Feb-17	21-Mar-17	0%	-219	-68								
+ Tower			,														
6B.0000	Preparation and submission for BIM / CSD / CBWD at 4/F (Tean	45	29-Mar-16	12-Mav-16	30-Nov-16	24-Jan-17	0%	-210	-51						B6B.0000	, Preparatio	n and s
6B.0030	Preparation and submission for BIM / CSD / CBWD at 5/F (Tean	45		· ·	30-Nov-16	24-Jan-17	0%	-162							B6B.0030	, Preparatio	n and s
5B.0070	Preparation and submission for BIM / CSD / CBWD at 6/F (Tean	45	,		09-Jan-17	04-Mar-17	0%	-155									
5B.0020	Preparation and submission for BIM / CSD / CBWD at 10/F (Tea	45			09-Jan-17	04-Mar-17	0%	-205									
5B.0010	Review, resubmission and approval for BIM / CSD / CBWD at 4/		13-May-16			20-Feb-17	0%		-10								B6B.00
5B.0060	Review, resubmission and approval for BIM / CSD / CBWD at 5/	20	12-Jul-16			20-Feb-17	0%	-166	2								B6B.0
5B.0000	Preparation and submission for BIM / CSD / CBWD at 7/F (Tean	45			17-Feb-17	11-Apr-17		-150									
6B.0050	Preparation and submission for BIM / CSD / CBWD at 11/F (Tea	45			17-Feb-17	11-Apr-17		-199								-	
SF Block		75	27 Juli 10	10 Aug 10	17 100 17	тт дрі ту	0 /0	155	51								
20.0280	Preparation and submission for BIM / CSD / CBWD at G/F (Tear	45	13-Eeb-16	28-Mar-16	15-Aug-16 A	16-Jan-17	10%	-240	17					B20 0	1280 Prenz	aration and s	submi
20.0300	Preparation and submission for BIM / CSD / CBWD at 1-5/F (Te				01-Nov-16 A			-192								aration and	
20.0310	Review, resubmission and approval for BIM / CSD / CBWD at 1			· ·	01-Nov-16 A	24-Dec-16		-150					320 0310 1			ind approval	
20.0310	Preparation and submission for BIM / CSD / CBWD at 1				31-Dec-16	25-Feb-17		-187						(eview, resu			в2
20.0290	Review, resubmission and approval for BIM / CSD / CBWD at G/				17-Jan-17	11-Feb-17		-244								В20.02	
20.0290	Preparation and submission for BIM / CSD / CBWD at 7/F (Tear	20		· ·	10-Feb-17	03-Apr-17										D20.02	50, ite
		45		-	27-Feb-17			-180									
20.0330	Review, resubmission and approval for BIM / CSD / CBWD at 6/	20	12-Jui-16	31-Jul-16	27-FeD-17	21-Mar-17	0%	-191	91								
	Car Park and Sewage Pumping Station (SPS)	45	12 Eak 16	27 Eab 16	26 14 16 4	17 Dec 16	750/	240	70								
01.0010	(SPS) BIM / CSD / CBWD - B2-UGF Preparation, submission, re							-240				D01.0				2-UGF Prepa	
02.0000	(SPS) BIM / CSD / CBWD - B1/F & G/F Preparation, submission				19-Dec-16	07-Jan-17		-338						002,0000, (	5P5) DIM /	CSD / CBW	<u></u>
02.0030	(ICP) BIM / CSD / CBWD - G/F & R/F Preparation, submission,	45	30-Dec-15	28-Jan-16	03-Jan-17	27-Feb-17	0%	-318	65								
	ck-Up (VMU)																
<u>/IU Prelir</u>		1.50					0.00/	200	50					a Dariad (Ca	optropt root	uiromont of	200
0.3610		169	01-Oct-15	17-Apr-16	01-Oct-15 A	27-Dec-16	80%	-208	50					(S Period (CC	Jilliact requ	uirement of	200 0
	Itory Submission & Inspection																
	Fire Service)											100 0500		<b>.</b>		·c · -	
0.3500	VMU - FSD's Inspection & Fire Certificate Issuance	12	18-Mar-16	01-Apr-16	31-Oct-16 A	10-Dec-16	5%	-208	50			A00.3500, V	/MU - FSD's	s Inspection	& Fire Certi	ificate Issua	nce,
IU BD (O																	
00.3510	VMU - Submission of BA14	0	02-Apr-16		11-Dec-16			-253				VMU - Subn					1-Dec
0.3520	VMU - BD Inspection	12	02-Apr-16	17-Apr-16	12-Dec-16	27-Dec-16								), VMU - BD			
0.3530	VMU - M+ OP	0		17-Apr-16		27-Dec-16	0%	-254	63				• VMU - M+	OP, VMU -	M+ OP,		

	Activity Name	Ori. BaseLine Start	t BaseLine	Forecast / Actual		%	Finish Curren	Novemb	us at 30 Nov 2016 er 2016 December 2016 January 2017 Feb	ruary 2017
		Dur.	Finish	Start	Finish	Compl.	/ariance Float	30 06 1		12 19
	ation & Storage Facility (CSF)									
rage - .4	Fitting-out Works Photo studio (2/F) - x-ray protection enhancement	0	20 Sop 16		20 Nov 16	0.0%	61 797		Photo studio (2/F) - x-ray protection enhancement, Photo	studio (2
		0	29-Sep-16		30-Nov-16	0%	-61 787			studio (2,
.5	ion Laboratory - Furniture and Fixtures Fixed furniture in pantry	0	29-Sep-16		30-Nov-16	0%	-61 787		Fixed furniture in pantry, Fixed furniture in pantry,	
		0	29-3ep-10		30-1100-10	0.70	-01 787		Tixed familiare in panci y, Tixed familiare in panci y,	
iserati	ion Laboratory - Laboratory Equipment Exhaust trucks-overhead mounted fume extraction arms	0	29-Sep-16		30-Nov-16	0%	-61 787		Exhaust trucks-overhead mounted fume extraction arms,	Exhaust i
.2	Fume hood cabinet	0	29-Sep-16		30-Nov-16	0%	-61 787		Fume hood cabinet, Fume hood cabinet,	Exhluse
.3	Exhaust wall (size 5m (L) x 3m (H)	0	29-Sep-16		30-Nov-16	0%	-61 787		Exhaust wall (size 5m (L) x 3m (H), Exhaust wall (size 5m	n (I) x 3m
.5	Wet shower area free standing enclosure	0	29-Sep-16		30-Nov-16	0%	-61 787		Wet shower area free standing enclosure, Wet shower are	
.7	Stainless steel laboratory sink	0	29-Sep-16		30-Nov-16	0%	-61 787	-	Stainless steel laboratory sink, Stainless steel laboratory s	
seum					00 1107 10	0.70				,
	Installation									
.2	Equipment system and machinery for "Juke Box" installation	0	29-Sep-16		30-Nov-16	0%	-61 787		Equipment system and machinery for "Juke Box" installat	ion, Equip
	lated to Museum Operations		·							
.6	People counting system - module enhancement to CCTV system	0	29-Sep-16		30-Nov-16	0%	-61 787		People counting system - module enhancement to CCTV s	ystem, Pe
k of l	House including Museum Workshop and Art Han		·							
ksho		anng								
3	Exhaust wall	0	29-Sep-16		30-Nov-16	0%	-61 787		Exhaust wall, Exhaust wall,	
nd B	31 Museum Shop including Espresso Bar		-							
	It Works									
2	Architectural lightings	0	29-Sep-16		30-Nov-16	0%	-61 787		Architectural lightings, Architectural lightings,	
3	Security shutter	0	29-Sep-16		30-Nov-16	0%	-61 787		Security shutter, Security shutter,	
nage										
	All non-digital way-finding signage	0	29-Sep-16		30-Nov-16	0%	-61 787		All non-digital way-finding signage, All non-digital way-fin	ding signa
	Digital signage at information counters	0	29-Sep-16		30-Nov-16	0%	-61 787		Digital signage at information counters, Digital signage at	informati
ernal	Works / Hard & Soft Landscape									
	Elements cooling main - ventilation intake shaft / maintenance	0 26-Sep-15	;	30-Nov-16		0%	-431 787		Elements cooling main - ventilation intake shaft / mainte	nance acc
	EMSD compliant design for canopy extension to G/F to L3 cano	0	29-Dec-15		30-Nov-16	0%	-336 787		EMSD compliant design for canopy extension to G/F to L3	canopy e
-Gei	neral Issues	]								
	Addition of 1 no. 1250TR chiller installation at M+ DCS plantroc	0	24-Oct-16		30-Nov-16	0%	-36 787		Addition of 1 no. 1250TR chiller installation at M+ DCS pla	ntroom fo
er Pr	ovisional Sums / Options for M+ Main Works Con	tract								
2	Interface car park - ELS, Architectural and BS works	0	28-Jan-16		30-Nov-16	0%	-306 645		Interface car park - ELS, Architectural and BS works, Inte	face car p
2	Sewage pumping station (SPS) - ELS, foundation, signage, buil	0	28-Jan-16		30-Nov-16	0%	-306 787		Sewage pumping station (SPS) - ELS, foundation, signage	, builder's
	Sea water pump cell - basic Building Services provisions	0	26-Sep-15		30-Nov-16	0%	-430 787		Sea water pump cell - basic Building Services provisions, s	Sea water
	BWIC / basic Building Services provisions for CLP transformer rc	0	26-Sep-15		30-Nov-16	0%	-431 787		BWIC / basic Building Services provisions for CLP transform	ner rooms
	CA/RSS M+PSO - Complete office accommodation and supportin	0	26-Sep-15		30-Nov-16	0%	-431 787	1	CA/RSS M+PSO - Complete office accommodation and sur	porting fa
	Contractor's proposed of SOM and IPS	0	26-Sep-15		30-Nov-16	0%	-431 787		Contractor's proposed of SOM and IPS, Contractor's propo	sed of SOI
stru	ction Milestones (Internal Reference)									
50	SPS Structure Topping-Out	0	26-Aug-16		19-Jan-17	0%	-146 -100		◆ \$PS Structure To	ping-Out
imir	naries / Construction	, , , , , , , , , , , , , , , , , , ,								
	Equipment									
n or I										

ivity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float 30	November 2		De 27 04	cember 2016 11 18	25		January 20 <sup>.</sup> 08   15			ebruary 2017	
A00.2120	M+ Podium - Erection of Passenger Hoists		22-Nov-16		16-Feb-17	22-Mar-17	0%		93	00 13			11 10	20	01	00 13		23 03		10 20
Excavat	tion & ELS																			
	stones & BD Stages LOE																			
Portion M																				
B10.3390	BD Stage 4 - Construct B2 slab for A5, B5 & Site formation for $\prime$	0	19-Mar-16	29-Nov-16	14-Jul-16 A	22-Dec-16	90%	-19	-26				V	BD Sta	age 4 -	Construc	t B2 sl	ab for A5,	B5 & Sit	te formatio
B10.3420	BD Stage 7 - Construct B2 slab for A9, A10, A11, A12, B7, B8,	25	03-Jun-16	24-Oct-16	22-Sep-16 A	10-Jan-17	70%	-64	-47							Ø BD Sta	ige 7 -	Construct	B2 slab	for A9, A10
AEL Nor	th																			
Portion A	A8, B6, A12, B7																			
B10.3580	AEL North - ELS Stage 5 Site Formation (Portion A12, B7)	30	25-Oct-16	29-Nov-16	15-Aug-16 A	22-Dec-16	90%	-19	-26					B10.3	580, AI	L North	- ELS S	Stage 5 Si	te Forma	ation (Portic
Dismant	le Lateral Support																			
B10.2140	AEL North - ELS Stage 7 Removal of Lateral Support	20	18-Jan-17	13-Feb-17	16-Feb-17	10-Mar-17	0%	-22	-13	<u> </u>						-	+			
AEL Sou	ith																			
DCS													_							
B10.2220	DCS - Remove 1st Layer Struts at +4.2mPD				30-Nov-16	12-Dec-16		-112					B10.222	20, DC	S - Rer	nove 1st	Layer	Struts at	1	
B10.2230	DCS - Backfilling and Install Access Hatch and Misc. Works	50	08-Jul-16	20-Sep-16	13-Dec-16	15-Feb-17	0%	-112	391										— B1(	0.2230, DO
	th East of Portion A10 (for Area M12 h/o)																			
C10.0390	Vacate Portion M12 for Lyric Contractor for Foundations (App.D	0		23-Sep-16		30-Nov-16	0%	-67	-2			Vacate	Portion M1	2 for L	yric Co	ntractor	for Fou	ndations (	App.D1.	.Item 5) (3
ICP																				
B10.3240	ICP - Lateral Support		10-May-16		· ^			-115												- Lateral S
B10.3220	ICP - Pile Cap Construction of Area A				16-Jul-16 A									L						A, ICP - Pil
B10.3230	ICP - Pile Cap Construction of Area B	25	18-Jun-16	26-Jul-16	27-Aug-16 A			-108						B10.		1			1	B, ICP - Pil
B10.3250	ICP - Complete Excavation & Lateral Support	0		26-Jul-16		03-Jan-17	0%	-161	-50						● ICP	- Comple	ete Exc	avation &	Lateral S	Support, IC
Structur	res																			
<b>Baseme</b>	nt Structures / Sub-Structure																			
<b>Pilecaps</b>																				
AEL North																				
Stage 4 t	o 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &	B6, B7	7, B8, B9)																	
Stage 4 t Pilecaps	o 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 & - Portion B6 & B7																			
Stage 4 t Pilecaps B10.3630	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &co - Portion B6 & B7AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)	9	06-Aug-16	•	15-Nov-16 A			-78		_				1				-	i i	Constructio
Stage 4 t Pilecaps B10.3630 B10.3640	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &co 8: A E North - BD Stage 6 - Pile Cap Construction (Portion B7)co 8: A E North - BD Stage 6 - Pile Cap Construction (Portion B7)co 8: A E North - BD Stage 6 - Underground Drainage (Portion B7)	9	06-Aug-16	•	15-Nov-16 A 15-Nov-16 A		30% 70%		-47 -26	-			B10.3	1				-	i i	Constructio rainage (P
Stage 4 t Pilecaps B10.3630 B10.3640 RC Struc	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         co 7: FLS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         co 7: For B6 & B7         AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         AEL North - BD Stage 6 - Underground Drainage (Portion B7)         AEL North - BD Stage 6 - Underground Drainage (Portion B7)         Curre for Water Tank	9 9	06-Aug-16 06-Aug-16	16-Aug-16	15-Nov-16 A	15-Dec-16	70%	-88	-26					640,	AEL Nor	th - BD S	Stage 6	5 - Underg	jround Dr	rainage (P
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Struct           B10.3355	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         co - Portion B6 & B7         0       AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)	9 9	06-Aug-16 06-Aug-16	16-Aug-16		15-Dec-16	70%	-88	-26					640,	AEL Nor	th - BD S	Stage 6	5 - Underg	jround Dr	i   i
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Struct           B10.3355           B2/F Slat	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp;</li> <li>a - Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>cture for Water Tank</li> <li>AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> </ul>	9 9	06-Aug-16 06-Aug-16	16-Aug-16	15-Nov-16 A	15-Dec-16	70%	-88	-26					640,	AEL Nor	th - BD S	Stage 6	5 - Underg	jround Dr	rainage (P
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Struct           B10.3355           B2/F Slal           B2 Slab -	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         co - Portion B6 & B7         0       AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)         b       Portion (A10a, A10b, A11 & A12)	9 9 35	06-Aug-16 06-Aug-16	16-Aug-16	15-Nov-16 A 10-Oct-16 A	15-Dec-16 07-Dec-16	70% 95%	-88 -47	-26				10.3355, <i>4</i>	640, A	AEL Nor orth - Ci	th - BD S	Stage 6 Water	5 - Underg Tank Part	round Dr 2 (West	rainage (P
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Structor           B10.3355           B2/F Slal           B2 Slab -           B10.3085	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp;</li> <li>a - Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>Cture for Water Tank</li> <li>AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> <li>Costion (A10a, A10b, A11 &amp; A12)</li> <li>AEL North - B2 Slab - Stage 7 (Portion A12)</li> </ul>	9 9	06-Aug-16 06-Aug-16	16-Aug-16	15-Nov-16 A 10-Oct-16 A	15-Dec-16	70% 95%	-88 -47	-26	AEL	North			640, A	AEL Nor orth - Ci	th - BD S	Stage 6 Water	5 - Underg Tank Part	round Dr 2 (West	rainage (P
Stage 4 t         Pilecaps         B10.3630         B10.3640         RC Structor         B10.3355         B2/F Slat         B2 Slab -         B10.3085	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         co - Portion B6 & B7         0       AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)         Cost       Portion (A10a, A10b, A11 & A12)         AEL North - B2 Slab - Stage 7 (Portion A12)         Portion (B6 & B7)	9 9 35 6	06-Aug-16 06-Aug-16 16-Aug-16	16-Aug-16 08-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A	15-Dec-16 07-Dec-16 12-Nov-16 A	70% 95% 100%	-88	-26	AEL	Vorth		10.3355, <i>4</i>	640, A	AEL Nor orth - Ci	th - BD S onstruct EL North	Stage 6 Water h - B2 S	5 - Underg Tank Part Slab - Stag	round Dr 2 (West ge 7 (Porl	rainage (P
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Struct           B10.3355           B2/F Slal           B2 Slab -           B10.3023	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         c - Portion B6 & B7         0       AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)         0       S         Portion (A10a, A10b, A11 & A12)         AEL North - B2 Slab - Stage 7 (Portion A12)         Portion (B6 & B7)         AEL North - B2 Slab - Stage 7 (Portion B7)	9 9 35 6 12	06-Aug-16 06-Aug-16 16-Aug-16	16-Aug-16 08-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16	15-Dec-16 07-Dec-16 12-Nov-16 A 10-Jan-17	70% 95% 100% 0%	-88 -47	-26 564 -47	AEL	Vorth		10.3355, <i>4</i>	640, A	AEL Nor orth - Cr A12), <i>A</i>	th - BD sonstruct EL North B10.30	Stage 6 Water h - B2 S 023, AE	5 - Underg Tank Part Slab - Stag EL North -	round Dr 2 (West ge 7 (Port B2 Slab	rainage (Partion for the second secon
Stage 4 t         Pilecaps         B10.3630         B10.3640         RC Structor         B10.3355         B2/F Slat         B2 Slab -         B10.3085         B2 Slab -         B10.3023         B10.3024	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp;</li> <li>a - Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>cture for Water Tank AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> <li>bs</li> <li>Portion (A10a, A10b, A11 &amp; A12) AEL North - B2 Slab - Stage 7 (Portion A12)</li> <li>Portion (B6 &amp; B7) AEL North - B2 Slab - Stage 7 (Portion B7)</li> <li>Complete B2 Slab (exclude AEL Zone)</li> </ul>	9 9 35 6	06-Aug-16 06-Aug-16 16-Aug-16	16-Aug-16 08-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16	15-Dec-16 07-Dec-16 12-Nov-16 A	70% 95% 100%	-88 -47 -63	-26	AEL	Worth		10.3355, <i>4</i>	640, A	AEL Nor orth - Cr A12), <i>A</i>	th - BD sonstruct EL North B10.30	Stage 6 Water h - B2 S 023, AE	5 - Underg Tank Part Slab - Stag EL North -	round Dr 2 (West ge 7 (Port B2 Slab	rainage (P
Stage 4 t           Pilecaps           B10.3630           B10.3640           RC Struct           B10.3355           B2/F Slal           B2 Slab -           B10.3085           B2 Slab -           B10.3023           B10.3024	co 7: ELS & Excavation (A6, A7, A8, A9, A10, A11, A12 &         c - Portion B6 & B7         0       AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - BD Stage 6 - Underground Drainage (Portion B7)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)         0       AEL North - Construct Water Tank Part 2 (West of Portion B1)         0       AEL North - B2 Slab - Stage 7 (Portion A12)         Portion (B6 & B7)       AEL North - B2 Slab - Stage 7 (Portion B7)         Complete B2 Slab (exclude AEL Zone)       Complete B2 Slab (exclude AEL Zone)	9 9 35 6 12	06-Aug-16 06-Aug-16 16-Aug-16	16-Aug-16 08-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16	15-Dec-16 07-Dec-16 12-Nov-16 A 10-Jan-17	70% 95% 100% 0%	-88 -47	-26 564 -47	AEL	Vorth		10.3355, <i>4</i>	640, A	AEL Nor orth - Cr A12), <i>A</i>	th - BD sonstruct EL North B10.30	Stage 6 Water h - B2 S 023, AE	5 - Underg Tank Part Slab - Stag EL North -	round Dr 2 (West ge 7 (Port B2 Slab	rainage (Partion) of Portion tion A12) - Stage 7 (
Stage 4 t         Pilecaps         B10.3630         B10.3640         RC Struct         B10.3355         B2/F Slat         B2 Slab -         B10.3023         B10.3024	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp;</li> <li>a - Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>Cture for Water Tank AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> <li>bs</li> <li>Portion (A10a, A10b, A11 &amp; A12) AEL North - B2 Slab - Stage 7 (Portion A12)</li> <li>Portion (B6 &amp; B7) AEL North - B2 Slab - Stage 7 (Portion B7)</li> <li>Complete B2 Slab (exclude AEL Zone)</li> <li>b - Walls, Columns &amp; B1/F Slabs</li> <li>h - B1/F Slab other than AEL Zone</li> </ul>	9 9 35 6 12 0	06-Aug-16 06-Aug-16 16-Aug-16 17-Sep-16	16-Aug-16 08-Oct-16 24-Oct-16 24-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16	15-Dec-16 07-Dec-16 12-Nov-16 A 10-Jan-17 10-Jan-17	70% 95% 100% 0%	-88 -47 -63 -63	-26 564 -47 -47	AEL	North		10.3355, 4 Stage 7 (Po	640, AEL No	AEL Nor orth - Cr A12), <i>A</i>	th - BD s onstruct EL North B10.30 Comple	Stage 6 Water n - B2 S 023, AE ete B2	5 - Underg Tank Part Slab - Stag EL North - Slab (excl	round Dr 2 (West 9e 7 (Port B2 Slab ude AEL	rainage (P of Portion tion A12) - Stage 7 ( Zone), Cor
Stage 4 t         Pilecaps         B10.3630         B10.3640         RC Structor         B10.3355         B2/F Slat         B2 Slab -         B10.3085         B2 Slab -         B10.3023         B10.3024         B1/F Slat         AEL Nortt         B10.3690	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp; A = Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>Cture for Water Tank</li> <li>AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> <li>bS</li> <li>Portion (A10a, A10b, A11 &amp; A12)</li> <li>AEL North - B2 Slab - Stage 7 (Portion A12)</li> <li>Portion (B6 &amp; B7)</li> <li>AEL North - B2 Slab - Stage 7 (Portion B7)</li> <li>Complete B2 Slab (exclude AEL Zone)</li> <li>b - Walls, Columns &amp; B1/F Slabs</li> <li>h - B1/F Slab other than AEL Zone</li> <li>AEL North - Wall, Column &amp; B1 Slab (Portion B1R)</li> </ul>	9 9 35 6 12 0 20	06-Aug-16 06-Aug-16 16-Aug-16 17-Sep-16 17-Sep-16	16-Aug-16 08-Oct-16 24-Oct-16 24-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16 12-Oct-16 A	15-Dec-16 07-Dec-16 12-Nov-16 A 10-Jan-17 10-Jan-17	70% 95% 100% 0% 0%	-88 -47 -63 -63 -91	-26 564 -47 -47	AEL	Vortt		10.3355, 4 Stage 7 (Po B10.	640, AEL No	AEL Nor orth - Cr A12), <i>A</i>	th - BD sonstruct EL North B10.30 Comple	Stage 6 Water 023, AE ete B2 9 all, Colu	5 - Underg Tank Part Slab - Stag EL North - Slab (excl umn & B1	round Dr 2 (West B2 Slab ude AEL \$lab (Po	rainage (P of Portion tion A12) - Stage 7 ( Zone), Cor ortion B1R),
Stage 4 t         Pilecaps         B10.3630         B10.3640         RC Struct         B10.3355         B2/F Slat         B2 Slab -         B10.3023         B10.3024	<ul> <li>co 7: ELS &amp; Excavation (A6, A7, A8, A9, A10, A11, A12 &amp;</li> <li>a - Portion B6 &amp; B7</li> <li>AEL North - BD Stage 6 - Pile Cap Construction (Portion B7)</li> <li>AEL North - BD Stage 6 - Underground Drainage (Portion B7)</li> <li>Cture for Water Tank AEL North - Construct Water Tank Part 2 (West of Portion B1)</li> <li>bs</li> <li>Portion (A10a, A10b, A11 &amp; A12) AEL North - B2 Slab - Stage 7 (Portion A12)</li> <li>Portion (B6 &amp; B7) AEL North - B2 Slab - Stage 7 (Portion B7)</li> <li>Complete B2 Slab (exclude AEL Zone)</li> <li>b - Walls, Columns &amp; B1/F Slabs</li> <li>h - B1/F Slab other than AEL Zone</li> </ul>	9 9 35 6 12 0 12 0	06-Aug-16 06-Aug-16 16-Aug-16 17-Sep-16 18-Jul-16	16-Aug-16 08-Oct-16 24-Oct-16 24-Oct-16 15-Aug-16 08-Oct-16	15-Nov-16 A 10-Oct-16 A 02-Nov-16 A 27-Dec-16	15-Dec-16 07-Dec-16 12-Nov-16 A 10-Jan-17 10-Jan-17	70% 95% 100% 0%	-88 -47 -63 -63 -91	-26 564 -47 -47 -47 -38	AEL	North		10.3355, 4 Stage 7 (Po	640, AEL No	AEL Nor orth - Cr A12), <i>A</i>	th - BD sonstruct EL North B10.30 Comple	Stage 6 Water 023, AE ete B2 9 all, Colu	5 - Underg Tank Part Slab - Stag EL North - Slab (excl umn & B1	round Dr 2 (West B2 Slab ude AEL \$lab (Po	rainage (1 of Portion tion A12) - Stage 7 Zone), Co prtion B1R

Pr	epared on 07-I	Dec-16	(3MRP-14) Thre	e	Mont	ths R	olling	<b>Proc</b>	ara	mr	ne	Sta	atus	at	: 3	0 Nc
Activ	vity ID	Activity Name		Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.		Current Float		ember 2016			ecember 2016
	AEL North -	B1/F Slab	for Truss T1, T2 & T5 Erection	Dui.		TINSI	Start	TINSI	Compi.	Variance	Tioat	0 06	13 20	27	04	11 18
	C10.0120		Construct Found Space Basement Wall and Cols to	15	02-Sep-16	23-Sep-16	30-Nov-16	16-Dec-16	0%	-64	524					C10.0
	AEL North -	B1/F Slab	for CSF & RDE (North of GL 1)													
	B10.3150	1	Wall, Column & B1 Slab (Portion B1H) (Portion A10	45	11-Oct-16	05-Dec-16	14-Nov-16 A	30-Dec-16	20%	-20	-39					
	B10.3170	AEL North -	Wall, Column & B1 Slab (Portion B1K) (Portion A12	12	25-Oct-16	08-Nov-16	11-Jan-17	24-Jan-17	0%	-63	-47					
	B10.3260	Complete W	all, Column & B1 Slab (exclude AEL Zone & East of	0		05-Dec-16		24-Jan-17	0%	-50	-58				<b></b>	
	C10.0385	AEL North -	External Wall & B1 Slab GL 1'-7'/J' within M12 (Def	16	29-Dec-16	17-Jan-17	25-Jan-17	15-Feb-17	0%	-22	-47					
	AEL South -	B1/F Slab	for DCS to facilitateTruss Erection													
	B10.2115		DCS) - Remove 2nd Layer Struts at 0.0mPD of DCS	8	29-Apr-16	12-May-16	01-Nov-16 A	26-Nov-16 A	100%	-133				B10.	2115,	AEL South
	B6A.2140		Plant Room - RC Works to +2.7mPD	53	22-Feb-17	· · ·		28-Apr-17	0%	1	17					
	AEL South -		ures Prior to Area M14 H/O			·		'								
	B10.3315		Construct Walls, Column & Staircases to G/F Level	27	29-Apr-16	13-Jun-16	24-Oct-16 A	30-Dec-16	20%	-141	138					
	B10.3310		Construct Basement Road Wall between PC 109 &	17	•	24-May-16		19-Dec-16	0%	-145						B1
	B10.3290		Construct Basement Road Wall between PC 96 & P	17	-	14-Jun-16		19-Dec-16	0%	-132						B1
	B10.3320		Construct G/F slab between PC 105, 109 & 116	16	-	27-Jun-16		06-Jan-17	0%	-136						
	B10.3300		Construct External Wall between PC 96 & PC105 tc	25		28-May-16		20-Jan-17	0%	-167						
				23	2170110	20 110 10	20 Dec 10	20 541 17	0 /0	107	110					
	AEL North -		olumns & LG/F Slabs													
	B10.3650		Wall, Column & LG/F Slab (Portion A6, A7, A10, A1	38	03-1an-17	18-Feb-17	16-Feb-17	31-Mar-17	0%	-35	-47					
				50	05 5411 17	1010017	1010017	51 Plui 17	0 /0	55	/					
	Podium Su	iper-Stru	ctures													
	Trusses AEL Tunnel	Zono Truc	soc 1													
	C10.0150		Zone - Erection of Temp Working Platform and Fals	50	25-lun-16	24-Aug-16	12-Jul-16 A	16-Dec-16	85%	-95	-91		· · · · · · · · · · · · · · · · · · ·			<b>C10</b> .
	C10.0155		Zone - Truss 1 Construction Summary	117		-	17-Dec-16	16 Dec 10	0%	-84	-89					V
	C10.0155		Zone - Truss 1 Concreting of 1st pour of bottom ch	12			17 Dec 10	03-Jan-17	0%	-92	-91					
	C10.0100		Zone - Truss 1 install bottom steel plates	24		20-Oct-16		03-Feb-17	0%	-85	-89					
	C10.0185		Zone - Truss 1 install temp platform, top nodes & ir	24	•	18-Nov-16		03-Mar-17	0%	-85	-89					
	C10.0190		Zone - Truss 1 Concreting of 2nd pour of bottom ch	15		18-Nov-16		03-Mar-17	0%	-84	-89					
	AEL Tunnel		5 1	15	02-1100-10	10-110-10	13-Feb-17	05-Mai-17	070	-04	-09					
	C10.0162		Zone - Erection of Temp Working Platform and Fals	50	13-Jul-16	09-Sep-16	12-Jul-16 A	16-Dec-16	85%	-81	-79					<b>—</b> C10.0
	C10.0102		Zone - Truss 2 Concreting of 1st pour of bottom ch	12		26-Sep-16		10-Jan-17	0%	-86	-91					C10.
	C10.0170		Zone - Truss 2 Construction Summary	125	•	20-3ep-10 21-Feb-17		01-Jun-17	0%	-80	-91					
	C10.0105		Zone - Truss 2 install bottom steel plates	24	· · · · · · · · · · · · · · · · · · ·	02-Nov-16		10-Feb-17	0%	-80	-91					
	C10.0198		Zone - Truss 2 install bottom steel plates Zone - Truss 2 install temp. platform, top nodes & i		•	30-Nov-16			0%	-80	-91	•				
	C10.0200			24				10-Mar-17		-80	-91					
			Zone - Truss 2 Concreting of 2nd pour of bottom ch	15	14-1100-10	30-Nov-16	22-Feb-17	10-Mar-17	0%	-80	-91					
	AEL Tunnel C10.0172			50	12 1.1 16	00 Can 16	12 Jul 16 A	00 Dec 16	0.5.0/	-74	-76					C10.0172,
			Zone - Erection of Temp Working Platform and Fals	50	13-Jul-16	09-Sep-16		08-Dec-16	95%							
	C10.0180		Zone - Truss 5 Concreting of 1st pour of bottom ch	12	•		30-Nov-16 A	17-Dec-16	5%	-60	-71					C10.
	C10.0175		Zone - Truss 5 Construction Summary	109	· · ·	04-Feb-17		13-Apr-17	0%	-57	-71					
	C10.0215		Zone - Truss 5 install bottom steel plates	24		09-Nov-16		18-Jan-17	0%	-57	-71					
	C10.0220		Zone - Truss 5 install temp. platform, top nodes & i	24		07-Dec-16		18-Feb-17	0%	-57	-71	-			_	
	C10.0225		Zone - Truss 5 Concreting of 2nd pour of bottom ch	15		07-Dec-16		18-Feb-17	0%	-57	-71				—	
	C10.0250		Zone - Truss 5 install top beam steel plates	18		30-Dec-16		11-Mar-17	0%	-57	-71				-	
	C10.0280	AEL Tunnel	Zone - Truss 5 Concreting of inclined member	17	08-Dec-16	29-Dec-16	20-Feb-17	10-Mar-17	0%	-57	-71				i —	

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10.0120	, AEL	North	- Con	struct	; Foun	id Spa	ce Ba	seme	ht Wall a	ano
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	B10.	3150,	AELI	North	- Wal	l, Colu	imn 8	B1 S	lab (Por	tio
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	B10.	3315	AEL	South	- Cor	struc	t Wall	s, Col	umn & s	Sta
<b>D</b> 10.05										
B10.33	10, AE	L Sou	τn - C	onstr	uct Ba	aseme	nt Ro	ad Wa	iii petwe	en
B10.32	90, AE	L Sou	th - C	onstr	uct Ba	seme	nt Ro	ad Wa	II betwe	en
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		B10.	3320,	AEL	South	- Con	struc	t G/F	slab bet	we
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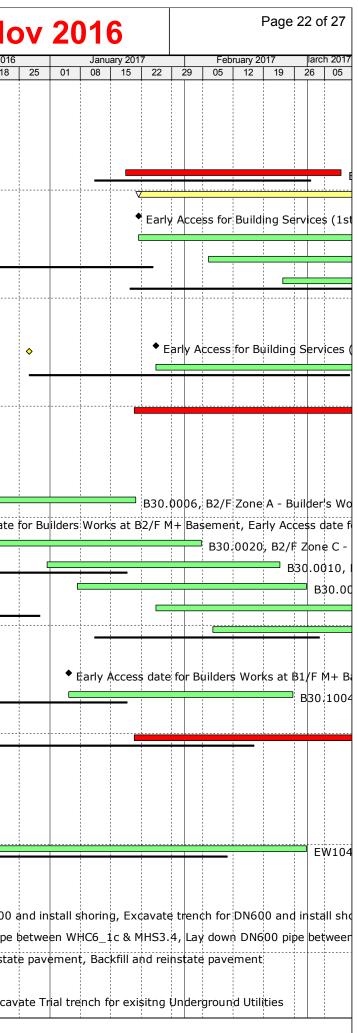
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# (3MRP-14) Three Months Rolling Programme Status at 30 No

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ctivity ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish √ariance	Current Float		lovember 2 6 13		27 04		ber 2016
AEL South	- Trusses 3				· · · · ·										
B6A.1999	AEL Tunnel Zone - Construct Composite/RC Columns for Truss	20			08-Aug-16 A	12-Dec-16	90%		-40		:		<b></b>	A	EL Tunn
B6A.2000	AEL South - Erection of Temp Working Platform and Falsework	46	20-Jul-16 1	15-Sep-16	31-Oct-16 A	24-Dec-16	50%	-82	-40					_	
B6A.2030	AEL South - Truss 3 Concreting of 1st pour of bottom chord (75	12	17-Sep-16 0	04-Oct-16	27-Dec-16	10-Jan-17	0%	-80	-38	·					
B6A.2020	AEL South - Truss 3 Construction Summary	144	17-Sep-16 2	21-Mar-17	27-Dec-16	23-Jun-17	0%	-75	-47						
B6A.2045	AEL South - Truss 3 install bottom steel plates	24	07-Oct-16 0	08-Nov-16	11-Jan-17	10-Feb-17	0%	-75	-38						
B6A.2050	AEL South - Truss 3 install temp. platform, top nodes & inclined	24	09-Nov-16 0	06-Dec-16	11-Feb-17	10-Mar-17	0%	-75	-38	-		<u> </u>			
B6A.2055	AEL South - Truss 3 Concreting of 2nd pour of bottom chord	15	19-Nov-16 0	06-Dec-16	22-Feb-17	10-Mar-17	0%	-75	-38						
AEL South	- Trusses 4														
B6A.2024	AEL Tunnel Zone - Construct Composite Columns for Truss T4	21			08-Aug-16 A	16-Dec-16	85%		-40				<b></b>		AELT
B6A.2025	AEL South - Erection of Temp Working Platform and Falsework	46	02-Aug-16 2	29-Sep-16	31-Oct-16 A	28-Dec-16	50%	-73	-40					_	
B6A.2040	AEL South - Truss 4 Concreting of 1st pour of bottom chord (75	12	30-Sep-16 2	20-Oct-16	07-Jan-17	20-Jan-17	0%	-76	-47						
B6A.2035	AEL South - Truss 4 Construction Summary	105	30-Sep-16 1	14-Feb-17	07-Jan-17	19-May-17	0%	-75	-47						
B6A.2058	AEL South - Truss 4 install bottom steel plates	24	21-Oct-16 1	18-Nov-16	21-Jan-17	21-Feb-17	0%	-75	-47						
B6A.2060	AEL South - Truss 4 install temp. platform, top nodes & inclined	24	19-Nov-16 1	16-Dec-16	22-Feb-17	21-Mar-17	0%	-75	-47						
G/F Slabs	- Walls, Columns & G/F Slab														
AEL North															
B20.0050	Podium G/F Portion GF2 - Wall, Column & G/F slab (GL 1-4/A-I	23	25-Oct-16 2	21-Nov-16	12-Oct-16 A	07-Jan-17	30%	-38	-33					_	
B20.0005	Podium G/F Portion GF1 Tower Footprint - Wall, Column & Stru	14	12-Sep-16 (	03-Oct-16	14-Oct-16 A	30-Dec-16	30%	-73	-57						
B20.0015	Podium G/F Portion GF1 - Wall, Column & G/F slab (GL 4-7/A-I	23	19-Sep-16 2	24-Oct-16	17-Oct-16 A	15-Dec-16	50%	-45	-16		_				B20.00
B20.0000	Podium G/F Portion GF1A - Wall, Column & G/F slab (GL 8-10/	18	16-Aug-16 1	10-Sep-16	19-Dec-16	11-Jan-17	0%	-99	-48						-
B20.0052	Podium G/F Portion GF5 - Wall, Column & G/F slab (GL 1-4 / D	18	03-Jan-17 2	23-Jan-17	25-Jan-17	17-Feb-17	0%	-19	18		-				
1/E Slabs -	Walls, Columns & 1/F Slab														
AEL North										····-					
B20.0425	Podium 1/F Tower Footprint (Block A) - Core Wall, Column & 1/	18	04-Oct-16 3	31-Oct-16	31-Dec-16	21-Jan-17	0%	-68	-57						
B20.0435	Podium 1/F Portion 1F1 - Wall, Column & 1/F Slab (GL1-5/A-D')	12	22-Nov-16 0	05-Dec-16	09-Jan-17	21-Jan-17	0%	-38	-33						
B20.0660	Podium 1/F Portion 1F2 - Wall, Column & 1/F Slab (GL1-5/E'-H')		24-Jan-17 C	08-Feb-17	18-Feb-17	02-Mar-17	0%	-19	56		>				
	s - Walls, Columns & 1M/F Structure														
M+ Tower F															
B20.0010	Podium 1M/F Tower Footprint (Block A) - Core Walls, Column &	18	01-Nov-16 2	21-Nov-16	23-Jan-17	15-Feb-17	0%	-68	-57						
AEL North															
B20.0100	Podium 1M/F Portion 1MFA - Wall, Column & 1MF Slab (1-4 / A	25	06-Dec-16 (	06-Jan-17	23-Jan-17	23-Feb-17	0%	-38	-33						
B20.0110	Podium 1M/F Portion 1MFB - Wall, Column & 1MF Slab (4-7 / A	18	07-Jan-17 2	27-Jan-17	24-Feb-17	16-Mar-17	0%	-38	-23						
2/E Slabe	Walls, Columns & 2/F Slab												-		
M+ Tower F															
B20.0020	Podium 2/F Tower Footprint (Block A) - Core Wall, Column & 2/	18	22-Nov-16 1	12-Dec-16	16-Feb-17	08-Mar-17	0%	-68	-57						
AEL North 2															
B20.0120	Podium 2/F Portion 2FA - Wall, Column & 2/F Slab (GL 1-4 / A-	23	07-Jan-17 0	06-Feb-17	24-Feb-17	22-Mar-17	0%	-38	-33						
					=	1/									
D01.3010	sps - Construct Basement Structure	100	27-Apr-16 2	26-Aua-16	25-Jul-16 A	19-Jan-17	13%	-119	-83		_		╇┿━━		
			p. 10 Z												
A3980	ICP - ELS works (Provisional)	110	22-Feb-16 2	26-Jul-16	20-May-16	04-Feb-17	45%	-140	-65		_		╇┿┷━		
A4490	ICP - Structure works	244	28-Jul-16 2		· ^	03-Oct-17	17%		-65				╇		
JU 50		244	20 Jui-10 2	L-T JUII-1/	25 Jui-10 A	05 0((-1/	1/70	.03	05						

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	25	01	08	15	22		29	05	12	19	26	05	;
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	B6A	2000	AFI	South	h - Fre	ect	ion	of Te	mn W	orking	n Pla	tforn	n i
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			B20	0050	. Podi	iun	n G	/F Poi	tion (	5F2 -	Wall	. Col	ur
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					B20	.04	135	, Podi	um 1	/F Por	tion	1F1	-
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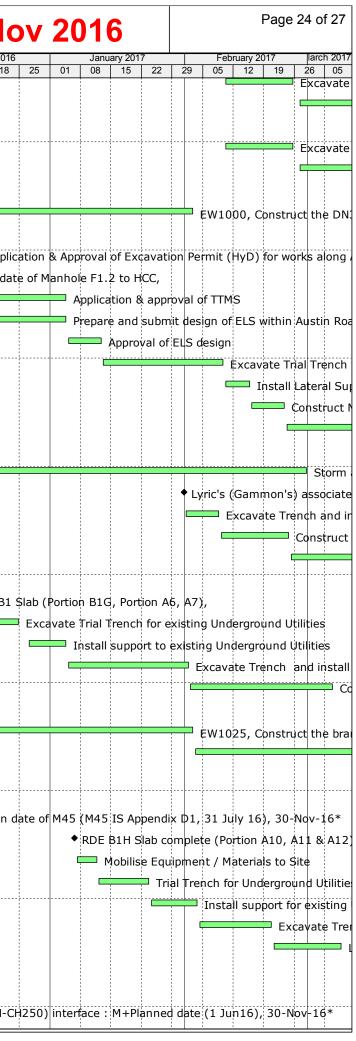
vity ID	Activity Name	(3MRP-14) Thr	Ori.	BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%	Finish	Current	N	ovember	2016	C	December 2016
Duilding			Dur.		Finish	Start	Finish	Compl.	Variance	Float	30 06	6 13	20 2	27 04	11 18
Building															
B2/F MEP	ient Build	ling Service													
First Fix															
B40,9060	B2/E - Build	ing Services - Zone D - 1st Fix	40	11-Jan-17	01-Mar-17	18-Jan-17	08-Mar-17	0%	-6	-39					
B40.8995		ing Services - 1st Fix - Summary	146	05-Oct-16		21-Jan-17	22-Jul-17	0%	1	21					
B40.8985		s for Building Services (1st Fix)	0	05-Oct-16	21 501 17	21-Jan-17	22 901 17	0%	-108	123					
B40.8990		ing Services - Zone A - 1st Fix	60	05-Oct-16	14-Dec-16	21-Jan-17	04-Apr-17	0%	-89	96					
B40.9030		ing Services - Zone C - 1st Fix	40	06-Dec-16		06-Feb-17	23-Mar-17	0%	-47	92					
B40.9025		ing Services - Zone B - 1st Fix	60		01-Apr-17	23-Feb-17	10-May-17	0%	-27	57					
B1/F MEP	B2/1 Build		00	19 541 17	01 / pi 1/	25 1 65 17	10 110 17	0 /0	27	57	<b>]</b>				
First Fix															
B40.9330	Farly Access	s for Building Services (1st Fix)	0	27-Dec-16		25-Jan-17		0%	-29	175					
B40.9335		ing Services - Zone A - 1st Fix	60	27-Dec-16	10-Mar-17	25-Jan-17	08-Apr-17	0%	-24	139					
	DI/I - Dullu	ing Services - Zone A - 1st HA	00	27-Dec-10	10-141-17	23-341-17	00-Api-17	0.70	-24	139					
SPS MEP D01.3020	CDC Instal	lation of Sewage/Drainage Pipes and Manholes	70	27-Aug-16	10 Nov 16	20-Jan-17	19-Apr-17	0%	-119	-83					
	SFS - Ilistal	lation of Sewage/Drainage ripes and Mannoles	70	27-Aug-10	19-100-10	20-Jail-17	19-Api-17	0 %	-119	-05			-		
ABWF															
M+ Basen		F													
B2/F ABW															
B30.0006		A - Builder's Work	42	15-Aug-16	04-Oct-16	30-Nov-16	20-Jan-17	0%	-89	63					
B30.0004		date for Builders Works at B2/F M+ Basement	0	15-Aug-16		30-Nov-16		0%	-107	80				Early A	Access date
B30.0020		C - Builder's Work	42	11-Oct-16			04-Feb-17	0%	-53	37			+		
B30.0010	,	3 - Builder's Work	42	28-Nov-16		31-Dec-16	22-Feb-17	0%	-27	57	•		-		
B30.0040	,	- Builder's Work	42	27-Sep-16			28-Feb-17	0%	-83	52		—			
B30.0050		- Builder's Work	42	09-Nov-16			17-Mar-17	0%	-63	25	-				
B30.0030	B2/F Zone I	) - Builder's Work	42	11-Jan-17	03-Mar-17	07-Feb-17	27-Mar-17	0%	-20	13		•			
B1/F ABW	F														
B30.1002	Early Access	adate for Builders Works at B1/F M+ Basement	0	28-Nov-16		05-Jan-17		0%	-38	159			<b></b>		
B30.1004	B1/F Zone A	A - Builder's Work	42	28-Nov-16	18-Jan-17	05-Jan-17	25-Feb-17	0%	-30	127			-	╂┊───	
SPS ABW	F														
D01.3030	SPS - ABWF		70	21-Nov-16	16-Feb-17	20-Jan-17	19-Apr-17	0%	-49	-83					
External	Works														
M+ Exterr															
Utilities															
Drainage															
EW1040	Construct th	ne DN150 storm drain within At-grade Road (M26)	72	12-Nov-16	10-Feb-17	30-Nov-16	28-Feb-17	0%	-15	427		-			
Storm Dra	n DN600 at	Portion M45													
		idline D'-E'/1'-2'													
EW1710		ench for DN600 and install shoring	10			07-Nov-16 A	17-Nov-16 A	100%					Excavat	e trench	for DN600 a
EW1730	Lay down D	N600 pipe between WHC6_1c & MHS3.4	7			16-Nov-16 A	24-Nov-16 A	100%				-	Lay	down E	DN600 pipe l
EW1740	Backfill and	reinstate pavement	2			25-Nov-16 A	28-Nov-16 A	100%						Backfill	and reinstat
		idline E'-G' / 1'-2'													
Storm Dra	in along Gr											1	- 1		



y ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish		inish Current riance Float 30	November 2016 0 06 13 20	December 2016           27         04         11         18	January 2017 25 01 08 15
EW1765	Complete B2 Slab, Columns & & Walls at A6 & A7	0			30-Nov-16*		0%	336			Columns & & Walls at
EW1758	Install support to existing Underground Utilities	7			16-Dec-16	24-Dec-16	0%	239			Install support to exist
EW1760	Excavate trench for DN600 at gridline E'-G' / 1' and install shor	10			27-Dec-16	07-Jan-17	0%	239			Excavate tr
EW1780	Lay down DN600 at gridline E'-G'/1'	7			09-Jan-17	16-Jan-17	0%	239			Lay
EW1800	Backfill trench at gridline E'-G'/1'	2			17-Jan-17	18-Jan-17	0%	239			□ Ba
Storm Dra	in DN450 at Portion M01										
Storm Dr	ain along Gridline G'-J' /1'-2										
EW1820	Excavate Trial Trench for exsiting Underground Utilities	14			19-Jan-17	07-Feb-17	0%	239			
EW1850	Install support to existing Underground Utilities	8			08-Feb-17	16-Feb-17	0%	239			
EW1810	Excavate trench for DN600 at gridline G'-J'/1' & install shoring	7			17-Feb-17	24-Feb-17	0%	239			
EW1830	Laydown DN600 at gridline G'-J'/1'	7			25-Feb-17	04-Mar-17	0%	239			
torm Dra	in DN375 at Portion M45										
	ain along Gridline A-K' / 5'									-	
EW6140	Lay down DN375 pipe between WHC6_1e	12			10-Nov-16 A	23-Nov-16 A	100%		La	y down DN375 pipe b	etween WHC6_1e, Lay
EW6150	Backfill and reinstate pavement	4			24-Nov-16 A	28-Nov-16 A	100%			Backfill and reinstat	e pavement, Backfill an
storm Dra	in DN150 at Portion M45										
	ain along Gridline A / 5' - 6'										
EW1900	PIW handover of WHC6_1f for M+ connection	0				30-Nov-16*	0%	-111		PIW handover of W	/HC6_1f for M+ connec
EW1910	Fence off work area for DN150 storm drain excavation	1			30-Nov-16	30-Nov-16	0%	276		<sup>I</sup> Fence off work are	a for DN150 storm drai
EW1915	Excavate Trial Trench fo exisiting Underground Utilities	14			01-Dec-16	16-Dec-16	0%	276		Excav	vate Trial Trench fo exis
EW1930	Install support to exisiting Underground Utilities	8			17-Dec-16	28-Dec-16	0%	276			Install support to e
EW1930	Excavate trench for DN150 and install shoring	6			29-Dec-16	05-Jan-17	0%	276			Excavate tre
EW1920	Lay down DN150 and connect to WHC6_1f	9			06-Jan-17	16-Jan-17	0%	276		-	Lay
EW1940	Backfill and reinstate pavement	3			17-Jan-17	19-Jan-17*	0%	276			□ B
		5			17 58117	19 Juli 17	0 70	270			
EW1945	ain DN300 along Gridline G-M/14 DCS Plant Room RC Structure complete (including defered pile (	0				30-Nov-16	0%	342		DCS Plant Room R	C Structure complete (i
EW1945	Prepare / Submit Temp Works ELS with ICE Cert	14			30-Nov-16	15-Dec-16	0%	244			e / Submit Temp Works
EW1955 EW1960		14						244			Excavate Trial Trench fo
	Excavate Trial Trench for existing underground utilities				06-Dec-16	22-Dec-16	0%				Install su
W1970	Install support on existing underground utilities	14			23-Dec-16	10-Jan-17	0%	244			
EW1980	Excavate to formation level & install laterla support	14			11-Jan-17	26-Jan-17	0%	244			
EW1990	Construct Mnahole S2.12 & S2.13	14			27-Jan-17	15-Feb-17	0%	244			
EW2040	Install DN300 pipe and connect to Manholes S2.12 & S2.13	7			16-Feb-17	23-Feb-17	0%	244			
EW2050	Backfill to existing ground level	5			24-Feb-17	01-Mar-17*	0%	244			
	ain DN600 along Gridline B-G/14										
EW8610	Excavate Trial Trench for existing underground utilities	14			30-Nov-16	15-Dec-16	0%	137			ate Trial Trench for exis
EW8605	Completion of B1 Slab (Portion B1E)	0				30-Nov-16	0%	178		Completion of B1	
EW8620	Install support on existing underground utilities	14			16-Dec-16	04-Jan-17	0%	137		-	Install suppor
EW8630	Excavate to formation level & install laterla support	14			05-Jan-17	20-Jan-17	0%	249			
EW8640	Construct Mnahole S2.12 & S2.13	14			21-Jan-17	09-Feb-17	0%	249			
EW8650	Install DN300 pipe and connect to Manholes S2.12 & S2.13	7			10-Feb-17	17-Feb-17	0%	249			
EW8660	Backfill to existing ground level	5			18-Feb-17	23-Feb-17*	0%	249			
Storm Dr	ain DN750 along Gridline A-B/14										
EW8670	Excavate Trial Trench for existing underground utilities	14			05-Jan-17	20-Jan-17	0%	137			E
EW8680	Install support on existing underground utilities	14			21-Jan-17	09-Feb-17	0%	137			

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	1	C	ompl	ete E	32 SI	ab,				Valls a		A7	, 30			-		-	
							Inst	all su	ippor	t to exi	sting	Unc	lerg	rour	d Uti	lities			
										cavate	-	1	- E			1	2 E'	-G'	/ 1' a
										1	y dow	1	1		1	1	1		
											Backfil	1			-	1			
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														F	vcava	ite Tri	al T	ron	ch fo
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La	iy	do	wn D	N37!	5 pip	e b	etwe	en W	HC6_	1e, La	y dow	n D	N37	75 pi	pe be	tweer	ו W	HC	5_1e
	╹	Ba	ckfill	and	reins	tat	e pav	/emei	nt, Ba	ackfill a	nd re	inst	ate	pav	emen	t			
		P.	IW ha	ndo	ver c	of W	/HC6	1f fo	or M+	çonne	ection,	1							
		F	ence	off v	vork	are	a for	DN1	50 st	orm dr	ain ex	cav	atic	on					
					Ex	cav	ate 🛛	Trial T	Frenc	h fo ex	isiting	Un	der	grou	nd Ut	ilities			
					<b>—</b>		<b>I</b>	İnstal	l sup	port to	exisit	ing	Und	dergr	ound	Utiliti	es		
									Exca	ivate ti	ench	for	DN	150	and ir	nstall	sho	ring	g
										📛 La	y dow	n D	N1	50 a	nd co	nnect	to	WH	C6 1
											) Backfi								_
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																	Ins		DN3
																		B	ackfi
					Exc	ava	ate T	rial Ti	rench	for ex	isting	uno	derg	grour	nd uti	lities			
		C	ompl	etion	n of E	31 S	Slab (	Portio	on B1	E),									
					-				Insta	ll supp	ort on	exi	istir	ng ur	dergi	round	uti	litie	s
											Exca	vate	e to	forn	hatior	ı leve	l &	inst	all la
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/ ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	Compl.		urrent Float	November 2 30 06 13	 27 0	Decemb	ber 2016 18
EW8690	Excavate to formation level & install laterla support	14		1 111011	10-Feb-17	25-Feb-17	0%		221				10
EW8700	Construct Mnahole S2.12 & S2.13	14			27-Feb-17	14-Mar-17	0%		221				
Storm Dra	ain DN700 along Gridline A/3-11				J								
EW8760	Excavate Trial Trench for existing underground utilities	14			10-Feb-17	25-Feb-17	0%		137		 		
EW8770	Install support on existing underground utilities	14			27-Feb-17	14-Mar-17	0%		137				
ewage													
W1000	Construct the DN375 sewer drain within Austin Road West and	50	29-Dec-15	29-Feb-16	30-Nov-16	02-Feb-17	0%	-243	521		<b></b>		
ewage at	Austin Road (Portion L09)												
EW1230	Application & Approval of Excavation Permit (HyD) for works alc	14			30-Nov-16	15-Dec-16	0%		250				Applic
EW1340	PIW Handover date of Manhole F1.2 to HCC	0				30-Nov-16*	0%		-17		PIW	V Handov	ver dat
EW1215	Application & approval of TTMS	28			30-Nov-16	04-Jan-17	0%		257				
EW1270	Prepare and submit design of ELS within Austin Road	14			16-Dec-16	04-Jan-17	0%		250			1	
EW1280	Approval of ELS design	7			05-Jan-17	12-Jan-17	0%		250				
W1290	Excavate Trial Trench for UU within Austin Road Area	21			13-Jan-17	09-Feb-17	0%		218		 1		
W1300	Install Lateral Support	5			10-Feb-17	15-Feb-17	0%		218				
W1310	Construct M+ Terminal Manhole F1.3A	7			16-Feb-17	23-Feb-17	0%		218				
W1320	Lay down DN375 in Austin Area and Backfill to adjacent ground	21			24-Feb-17	20-Mar-17	0%		218				
	djacent to CLP Station (Portion L19)												
W6060	Storm and Sewer drain last manhole connection	72			30-Nov-16	28-Feb-17	0%		499				
W1225	Lyric's (Gammon's) associated works at Portion L06 complete /	0				31-Jan-17*	0%		0				
W1235	Excavate Trench and install shoring for sewer drain along CLP S	7			01-Feb-17	08-Feb-17	0%		213				
W1240	Construct manholes F1.3C and F1.3B	14			09-Feb-17	24-Feb-17	0%		213				
W1250	Lay down DN375 storn drain pipe from gridline J adjacent to CL	28			25-Feb-17	29-Mar-17	0%		213				
	N300 at Portion M01, Gridline A / 3-14				10 1 00 17		0.10				 		
EW1355	Completion of B1 Slab (Portion B1G, Portion A6, A7)	0				30-Nov-16	0%	· · ·	283		Cor	npletion	of B1
EW1356	Excavate Trial Trench for existing Underground Utilities	21			30-Nov-16	24-Dec-16	0%		205				
EW1358	Install support to existing Underground Utilities	7			27-Dec-16	04-Jan-17	0%		205				
EW1360	Excavate Trench and install shoring	21			05-Jan-17	01-Feb-17	0%		205				
EW1300	Construct Manholes F2.1A, F2.1B, F2.1C, F2.1D & Terminal Mi	28			02-Feb-17	06-Mar-17	0%		205		 		
		20			0210017	00 1101 17	0.10		203		1		
<b>as</b> W1025	Construct the branch gas main for M+	50	01-lup-16	20-Jul-16	30-Nov-16	02-Feb-17	0%	-143	399				
W1025 W1030	Construct the branch gas main for RDE building	50		08-Sep-16		01-Apr-17	0%	-159					
	at Portion M45	50	21 Jul 10	00 300 10	001001/		0 /0	1.5.9					
											 •		
<b>Gas Main</b> EW1035	along Gridline E' - I' / 1' Take Possession date of M45 (M45 IS Appendix D1, 31 July 16)	0			30-Nov-16*		0%		122		Tak	e Posses	ssion d
EW1035 EW6130	RDE B1H Slab complete (Portion A10, A11 & A12)	0			JU 1107-10	06-Jan-17	0%		367				
EW1095					07 <u>-</u> 120 17								
	Mobilise Equipment / Materials to Site	4			07-Jan-17	11-Jan-17	0%		264				
EW1105	Trial Trench for Underground Utilities	10			12-Jan-17	23-Jan-17	0%		264		 . <mark>.</mark>		
EW1115	Install support for existing Underground Utilities	7			24-Jan-17	03-Feb-17	0%		264				
EW1165	Excavate Trench for Main Gas 100mm and install shoring	14			04-Feb-17	20-Feb-17	0%		264				
EW1175	Lay down Main Gas 100mm	14			21-Feb-17	08-Mar-17	0%		264				
/SD													
	n Works at Portion M45	-							1.05			torme	
EW1147	Watermain (FH-CH250) interface : M+Planned date (1 Jun16)	0			30-Nov-16*		0%	-	182		 vvat	termain	(Lu-Cl



ty ID	Activity Name	Ori. Dur.	BaseLine Start	BaseLine Finish	Forecast / Actual Start	Forcast / Actual Finish	% Compl.	Finish C	Current Float 30		ovember 2016 6 13 20		Dec 27 04	ecember 2016
EW1150	PIW Contractor Handover Portion M45 to HCC (IS Appendix D1,	0			30-Nov-16*		0%		-122		5 10 20			ntractor Han
EW1160	Remove existing hoarding fixed to Sheet pile	14			30-Nov-16	15-Dec-16	0%		-11					💻 Remove
EW1170	Install a new hoarding with 500mm clearance from roadside	7			16-Dec-16	24-Dec-16	0%		-11					
EW1180	Excavate Trench to expose watermains by PIW & install shoring	7			27-Dec-16	04-Jan-17	0%		-11					
EW1190	Cut down sheet piles for water pipe connections	7			05-Jan-17	12-Jan-17	0%		-11					
EW1510	Construct Incoming Water Mains (1- DN100 salt water)	21			13-Jan-17	09-Feb-17*	0%		-11					
EW1500	Construct Incoming Water Mains (2- DN150 Fresh Water)	21			13-Jan-17	09-Feb-17*	0%		-11					
Water Mai	n Works at Portion M01													
EW6090	Construct the incoming water mains (two DN150 fresh water, a	90			10-Feb-17	10-Jun-17	0%		-11					
Telecom														
EW1080	Lay Telecom FTNS duct and complete pits connection	72	27-lun-16	18-Oct-16	20-Dec-16	20-Mar-17	0%	-123	199					
Telecom		. =	2, 54. 10	10 000 10	10 0 00 10	20	0.10							
EW1590	Construct ICT & ELV drawpits @ Gridline M/14	15			07-Jan-17*	25-Jan-17	0%		469					
EW1550	Construct 28 DN100 FTNS drawpit @ gridline M/14	14			25-Jan-17	14-Feb-17	0%		469					
EW1600					14-Feb-17	02-Mar-17	0%		469					
	Construct 4# 28 DN100 FTNS drawpit @ gridline A-M/14	14			14-Feb-17	02-Mdi-17	0%		409					
	Free sets to a set in factory of the state of the dimenting and set to set	10	02 1.00 16	10 Jun 16	20 Nov 16	12 Dec 16	0.04	124	422					
EW1090	Excavate trench in footway for the 11kV direct buried cables	12		18-Jun-16		13-Dec-16	0%		432					EW1090,
EW1100	Lay 11kV power cable by CLP (by others)	25		28-Jul-16	14-Dec-16	14-Jan-17	0%		432					
EW1110	Backfilling footway to adjacent ground level	6		06-Aug-16		21-Jan-17	0%		432					
EW1120	Allow Access for PIW Contractor to carry out works for 132kV ca	0	07-Aug-16		22-Jan-17		0%		608					
EW1130	Lay 132kV cable by CLP (by others)	25		12-Sep-16		23-Feb-17	0%		432					
EW1140	Backfilling footway to adjacent ground level	6	13-Sep-16	22-Sep-16	24-Feb-17	02-Mar-17	0%	-124	432					
	Portal Area		1		· · · · ·		Í a c							
EW2000	Entrance Portal Area - Dewatering Complete	0		08-Nov-16		11-Jan-17	0%		-25	<b></b>				
EW2010	Entrance Portal Area - Excavation	20	09-Nov-16			06-Feb-17	0%		-18	-			+	
EW2020	Entrance Portal Area - Construct Entrance Portal Area to B1 Str	30	17-Nov-16			25-Feb-17	0%		-18					
EW2030	Entrance Portal Area - Backfill to Soffit of Basement B1 Structu	24	23-Dec-16	21-Jan-17	27-Feb-17	25-Mar-17	0%	-51	194					
Sea Water	r Drainage Pipe		,						-	-				
EW3000	Take Possession of M15,M16, M38 & M39	0	02-Sep-16		15-Nov-16 A		100%	-74			Take F	ośse	ssion of N	м15,м16, М
EW3030	Take Possession of Site Portion M41 & M42	0	03-Oct-16		30-Nov-16		0%	-58	532				Take Po	ssession of s
EW3010	Install Seawater Discharge Pipes in Portions M15, M16, M38 &	120	02-Sep-16	09-Feb-17	30-Nov-16	29-Apr-17	0%	-64	353					
EW3040	Install Seawater Discharge Pipes in Portions M41 & M42	130	03-Oct-16	16-Mar-17	30-Nov-16	16-May-17	0%	-44	393					
Sea Water	Drainage Pipe													
Seawater I	Intake and Outfall Pipeworks													
EW8980	Take Possession of Site Portion M41 & M42 (Appendix D2, 1Ocl	0			30-Nov-16*		0%		-60				Take Po	ssession of s
Seawater	outfall pipeworks underground section Ch0 - 108 (star	rting	from Ch108	B)	· · · · · · · · · · · · · · · · · · ·									
EW3100	Driving of sheet piles	32			12-Nov-16 A	23-Dec-16	30%		171					
EW3120	Excavation for installing 1st layer of walings and struts	10			21-Nov-16 A	10-Dec-16	20%		171		-			Excavation
EW3130	Installing 1st layer of walings and struts	18			25-Nov-16 A	20-Dec-16	20%		171			-		Inst
EW3140	Hanging and supporting of existing underground KGO and othe	9			01-Dec-16	12-Dec-16	0%		174					Hanging a
Ch105 to	108, for future connections by Lyric (trench fromation -3.6	mPD	)											
EW3200	Excavation for installing 2nd layer of walings and struts	5			01-Dec-16	07-Dec-16	0%		171				E>	cavation for
EW3210	Installing 2nd layer of walings and struts	7			07-Dec-16	15-Dec-16	0%		171					💻 Installin
		1					1			1	1		1	1

	V	20	)1(	6						Page	25	5 01	f 27
2016			Janu	ary 201	7			Feb	ruary 20	017		larch	า 2017
18	25	01	08	15	22		29	05	12	19		26	05
or Ha	ndove	r Por	tion M	45 to	HCC	(IS	Ар	pend	ix D1,	item	36	, 3	1 Jul
emo	ve exi	sting	hoard	ing fix	ked to	s SI	hee	t pile					
	Inst		1	oardir		i -		Ì	1	Ì	1	1	
		E	xcava	ite Tre	nch t	to e	exp	ose w	aterm	ains l	рy	PIW	/ & ir
				Cut do	wn s	he	et p	iles fo	or wat	er pip	e c	onr	nectio
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on o	f Site	Portio	n M4	1 & M	42, T	ake	e Pc	ssess	ion of	Site	Po	tio	n M4
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	I		1	1				1		I		_	
on o	f Site	Portio	n M4	1 & M	42 (A	pp	end	ix D2	, 10c	16),	30	-No	v-16
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	Drivin		choot	piles,	Drivi	na	of a	choot	nilec				
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ging	and s	uppoi	ting o	of exis	ting u	inc	lerg	round	l KGO	and o	oth	er s	servio
ion f	or ins	talling	2nd	layer	of wa	ling	js a	nd st	ruts				
stall	ing 2ı	d lay	er of	waling	s and	l st	rut	5					
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pared on 07-	(3MRP-14) Thre	e Mont	ths R	ollinc	I Proc	Ira	mm	e S	tat	US	at 3	30	Nov	2016		Γd	ige 26 o
ID	Activity Name	Ori. BaseLine Start	BaseLine	Forecast / Actual	Forcast / Actual	%	Finish Curr	ent	Novembe	er 2016		Decemb	er 2016	January 20 <sup>2</sup>		February 2017	
EW3230	MS pipes, fittings and tee off Installation for future connections	7	Finish	Start 24-Dec-16	Finish 04-Jan-17	Compl. 0%	√ariance Flo 17		06 13	20	27 04	4 11	18 25		22 29 0 ttings and tee c		ion for f
EW3240	Thrust blocks construction	5		04-Jan-17	10-Jan-17	0%	17	1						Thrust	blocks construc	ction	
EW3250	Backfilling for construction of gate valve chamber	3		10-Jan-17	13-Jan-17	0%	17	1						🔲 Back	filling for const	ruction of g	jate val
EW3260	Construction of bottom part of gate valve chamber	7		13-Jan-17	21-Jan-17	0%	17	1							Construction	of bottom r	part of g
EW3270	Construction of remaining part of gate valva chamber	7		10-Feb-17	18-Feb-17*	0%	19	2								Cr	onstruc
CH5 to 40	(trench formation +0.9mPD), Ch40 to 105 (trench formati	on+1.8mPD).															
EW3280	Excavation to bottom of trench	14		01-Dec-16	17-Dec-16	0%	19	1					<sup>I</sup> Excavatio	n to bottom of tr	ench		
EW3290	Construction of bottom part of washout chamber at Ch39	7		17-Dec-16	28-Dec-16	0%	19	1					· · · ·	Construction of be	ottom part of w	ashout cha	ımber a
EW3300	MS pipe and fittings installation Ch5 to 40	14		10-Jan-17	26-Jan-17	0%	20	2							💻 MS pipe a	and fittings	installa
EW3310	MS pipe and fittings installation Ch40 to 105	14		21-Jan-17	10-Feb-17	0%	17	1								MS pipe	and fitt
EW3320	Construction of remaining part of washout chamber	7		10-Feb-17	18-Feb-17	0%	19	2								Cr	onstruc
EW3330	Thrust blocks construction	7		10-Feb-17	18-Feb-17*	0%	17	1								TI	hrust bl
Ch0 to 5						-											
EW3340	MS pipe and fittings installation	14		18-Feb-17	07-Mar-17	0%	17	1								-	
DCS Box								_									
EW9000	Access to Portion M15 & M16	0		04-Nov-16 A		100%		♦ A	ccess to	Portion	M15 & M	116, 04	-Nov-16 A	Access to Portio	n M15 & M16		
EW9010	Excavate Trial Trench	4			12-Nov-16 A								avate Trial				
EW9020	Open Cut Excavation (one side of Pipe Piles Gammon)	4			25-Nov-16 A			_		1		i i	1	side of Pipe Piles (	Jammon), Ope	en Cut Exca	vation
EW9030	Pour Blinding	1		28-Nov-16 A		50%	24	.9					ing, Pour B				
EW9170	1st Pour Lower Slab (FRC + Puddle flange)	4		03-Dec-16	07-Dec-16	0%	24	-						lab (FRC + Puddle	flange)		
EW9170	2nd Pour Lower Slab (FRC + Puddle flange)	4		08-Dec-16	12-Dec-16	0%	24							ver Slab (FRC + P			
EW9100	Remove Shutter	1		13-Dec-16	12 Dec 10	0%	24						emove Shu				
EW9190	Backfill & Reinstate to Ground Level	3		13 Dec 10 14-Dec-16	16-Dec-16	0%	24							Reinstate to Grou	ind Level		
EW9200	DCS Box complete	0		14 Dec 10	16 Dec 16	0%	34						DCS Box of				
		0			10 Dec 10	0 /0	57	0						,			
10.1100	hiller Mains Intake Chiller Mains - Install Grout Curtain along Sheet Piles	42 22-Sep-16	18-Nov-16	16-Eob-17	06-Apr-17	0%	-112 39	1									
	-		10-110-10	10-Feb-17	00-Api-17	0 70	-112 39	1		-							
	Inspections & Occupation Permit (OP)	)															
	m - Statutory Inspection & Approval																
	m - WSD (FS Pipeworks) Inspection & Approval																
SH4200	FS - Submit Form WW046 (Part 1 & 2) and Approval by WSD (	90 02-Feb-16	01-May-16	30-May-16	30-Mar-17	70%	-272 19	9									
	m - WSD (Plumbing) Inspection & Approval																
SH4260	Plumbing - Submit Form WW046 (Part 1 & 2) to WSD (Subject	90 02-Feb-16	01-May-16	30-May-16	30-Mar-17	70%	-272 19	9									
ummary	/ Programme																
+																	
oundatio	n & Basement																
SM1010	Excavation & ELS Works	310 02-Nov-15				87%	-3 -1										
SM1030	B2/F to B1/F Structure	321 17-Dec-15			-	50%	25 -7										
SM1040	B1/F to LG/F Structure	92 19-Mar-16	18-Feb-17	24-May-16	15-Feb-17	10%	3 -4	7			+					B1/F	F to LG
SM1110	Basement ABWF Works	364 15-Aug-16	27-Dec-17	30-Nov-16	24-Feb-18	0%	-47 -4	4									<u> </u>
odium																	
SM1050	Trusses Construction	131 25-Aug-16	21-Feb-17	17-Dec-16	01-Jun-17	0%	-80 -5	8				7	7				
SM1060	G/F Slab & RC Structure to 3/F	303 16-Aug-16	11-Nov-17	19-Dec-16	29-Dec-17	0%	-38 -8	3					V				
PS																	

Prepared on 07	<sup>7-Dec-16</sup> (3MRP-14)	Three M	onths R	colling	g Prog	gra	mn	ne	St	at	us	a	t 3	30	Ν	0	V Å	20	16	5				Page	e 27 of
Activity ID	Activity Name	Ori. Base	Line Start BaseLine	Forecast / Actual		%	Finish			ovember	r 2016			Decer	nber 20	016			Janua	ry 2017	7		February 2	2017	larch
		Dur.	Finish	Start	Finish	Compl.	. Variance	Float	30 06	6 13	20	27	04	1	1   1	18	25	01	08	15	22	29	J5 12	19	26
SM1470	SPS RC Structure	100 27-	Apr-16 26-Aug-16	25-Jul-16 A	19-Jan-17	15%	-119	-83													SPS R	C Struc	ture, SP	S RC	Structu
SM1480	SPS Building Services Works	100 27-	Aug-16 16-Feb-17	20-Jan-17	26-May-17	0%	-79	-83												V					
SM1490	SPS ABWF	100 21-	Nov-16 16-Feb-17	20-Jan-17	26-May-17	0%	-79	-83												V					
ICP																									
SM1415	ICP ELS and Excavation	137 22-	Feb-16 26-Jul-16	20-May-16	04-Feb-17	77%	-157	-65								_							CP ELS	and Ex	xcavati
SM1420	ICP RC Structure	244 28-	Jul-16 24-Jun-17	25-Jul-16 A	03-Oct-17	18%	-83	-83								_									++++

Lyric Theatre Complex

			i			GRES	SS AS	OF :	30-DEC-201	6	2016		;		Page 1 c	f 2	
ID Activity Name	Durn. (Days)	Programme Rev A Start	Programme Rev A Finish	Current / Actual Start	Current / Actual Finish	Physical % Complete	Finish Variance	Float (Days)	lan Feb Mar Apr 1 2 3 4	2 May Jun 5 6	2016 Jul Aug Se 7 8 9			Jan         Feb         Mar           13         14         15		2017           in         Jul         Aug         Sep           8         19         20         21	Oct Nov 22 23
2 Foundation Works for Lyric Theatre Complex	K					<u>.</u>											
ummary for Major Works																	
Pre-bored H-Pile			·											               			
Pre-bored H-Pile Construction																	
LT.0087 Trial Pile and Obtain BD's Acknowledgement	18	22-Feb-16	12-Mar-16	08-Mar-16 A	09-Mar-16 A	100%	4										
LT.0088 Predrilling, Excluding Portions L02 and L03; 56 nos.	71	20-Feb-16	20-May-16	01-Mar-16 A	13-Jul-16 A	100%	-43										
LT.0089 Pre-bored H-Pile Construction; Rig 1, 107 nos	243	01-Apr-16	21-Jan-17	17-Mar-16 A	26-Jan-17	91%	-4	38									
LT.2225 Pre-bored H-Pile Construction; Rig 2, 96 nos	255	01-Apr-16	08-Feb-17	30-Mar-16 A	26-Jan-17	92%	8	39									
LT.2226 Pre-bored H-Pile Construction; Rig 3, 25 nos	25	01-Apr-16	30-Apr-16	30-Apr-16 A	05-Jul-16 A	100%	-51										
LT.3315 Pre-bored H-Pile Construction; Rig 3, 8 nos	24			23-Sep-16 A	22-Oct-16 A	100%											
LT.3340 Pre-bored H-Pile Construction; Rig 4, 6 nos	13			27-Sep-16 A	14-Oct-16 A	100%				-+							
LT.3370 Pre-bored H-Pile Construction; Rig 3, 19 nos	40			11-Nov-16 A	30-Dec-16 A	100%											
Contract Administrator's Instruction No. 8																	
LT.3010 Predrilling in Portions L02 and L03; 14 nos.	30	14-Oct-16	17-Nov-16	08-Aug-16 A	01-Sep-16 A	100%	64	00									
LT.3015     Pre-bored H-Pile Construction; Rig 1, 21 nos       LT.3020     Pre-bored H-Pile Construction; Rig 2, 22 nos	65 67	14-Feb-17	06-May-17	27-Jan-17	20-Mar-17	0%	35	38					- <u> </u>				
LT.3020 Pre-bored H-Pile Construction; Rig 2, 22 nos LT.3390 Pre-bored H-Pile Construction; Rig 4, 16 nos		14-Feb-17	09-May-17	27-Jan-17	18-Mar-17	0% 100%	38	39					<u></u>				
LT.3750 Pre-bored H-Pile Construction; Rig 3, 4 nos	25			17-Nov-16 A 28-Dec-16 A	16-Dec-16 A 10-Jan-17	49%		94					- <u>+</u>	<b>.</b>			
				20-Dec-10A	10-5 dil-17	4370		34									
BA14 and Testing LT.0094 Submission of BA14	6	06-Jun-17	12-Jun-17	18-Apr-17	23-Apr-17	0%	50	51							· · · · · · · · · · · · · · · · · · ·		
LT.0095 CA's Selection of Proof Drilling Locations	14	09-May-17	23-May-17	21-Mar-17	03-Apr-17	0%	50	51							•		
LT.0096 Proof Drilling	14	23-May-17	06-Jun-17	04-Apr-17	17-Apr-17	0%	50	51									
LT.0097 BD's Selection of Test Piles	28	12-Jun-17	10-Jul-17	24-Apr-17	21-May-17	0%	50	51									
LT.0098 Load Testing and Submit Reports	32	10-Jul-17	11-Aug-17	21-May-17	22-Jun-17	0%	50	51								<b>.</b>	
LT.0099 BD's Acknowledgement	45	11-Aug-17	25-Sep-17	23-Jun-17	06-Aug-17	0%	50	68									
Bored Pile		-								-+			-+				
Bored Pile Construction														· · · · · · · · · · · · · · · · · · ·			
LT.0102 Predrilling, Excluding Portions L02 and L03; 145 nos.	125	20-Feb-16	25-Jul-16	02-Mar-16 A	02-Sep-16 A	100%	-33			· · · · · · · · · · · · · · · · · · ·	i						
LT.0103 Bored Pile Construction; RCD Rig 1, 31 nos.	244	07-Apr-16	27-Jan-17	12-Mar-16 A	23-Mar-17	82%	-44	51									
LT.1895 Bored Pile Construction; RCD Rig 2, 27 nos.	268	18-Mar-16	13-Feb-17	17-Mar-16 A	11-Mar-17	77%	-23	61		- 1	L J						
LT.1905 Bored Pile Construction; RCD Rig 3, 25 nos.	243	14-Apr-16	06-Feb-17	21-Mar-16 A	13-Mar-17	77%	-30	60									
LT.1915 Bored Pile Construction; RCD Rig 4, 20 nos.	245	29-Mar-16	20-Jan-17	23-Mar-16 A	02-Feb-17	89%	-8	-15									
LT.1925 Bored Pile Construction; RCD Rig 5, 15 nos.	200	28-Apr-16	24-Dec-16	26-Apr-16 A	10-Dec-16 A	100%	13										
LT.1935 Bored Pile Construction; RCD Rig 6, 13 nos.	175	12-Jul-16	10-Feb-17	13-Jul-16 A	12-Apr-17	45%	-51	35									
LT.1945 Bored Pile Construction; RCD Rig 7, 14 nos.	146	14-Jul-16	06-Jan-17	22-Jul-16 A	27-Feb-17	75%	-41	-36									
LT.2215 Sonic Logging and Interface Coring Test; Excluding Portions L02 and L03	145	10-Sep-16	08-Mar-17	06-Oct-16 A	29-Apr-17	28%	-41	35									· · · · ·
LT.3260 Completion of Bored Pile Construction in Area 6	0				28-Feb-17	0%		-46						•			
Contract Administrator's Instruction No.8																	
LT.2891 Predrilling in Portions L02 and L03; 11 nos.	24	13-Sep-16	13-Oct-16	03-Aug-16 A	24-Aug-16 A	100%	41										
LT.2895 Bored Pile Construction; RCD Rig 4, 4 nos.	51	10-Dec-16	14-Feb-17	24-Aug-16 A		100%	92										
LT.2905 Bored Pile Construction; RCD Rig 1, 3 nos.	43	20-Dec-16	14-Feb-17	27-Aug-16 A	04-Oct-16 A	100%	108										
LT.2915 Bored Pile Construction; RCD Rig 4, 2 nos.	30	06-May-17	10-Jun-17	21-Sep-16 A	12-Nov-16 A	100%	168										
LT.2925Bored Pile Construction; RCD Rig 1, 2 nos.LT.2935Sonic Logging and Interface Coring Test; Portions L02 and L03	29 12	09-May-17 13-Jun-17	12-Jun-17 26-Jun-17	11-Oct-16 A 02-May-17	10-Nov-16 A 16-May-17	100% 0%	171 34	35		-+	+		- <u>+</u>				
	12	13-Juii-17	20-Juii-17	02-1VIdy-17	10-1viay-17	0.70	34	55			+			    			
BA14 and Testing LT.0108 Submission of BA14	2	27 Jun 17	20 Jun 17	17 May 17	10 May 17	00/	24	35									
L1.0108 Submission of BA14 LT.0109 BD's Selection of Test Piles	3 28	27-Jun-17 30-Jun-17	29-Jun-17 27-Jul-17	17-May-17 20-May-17	19-May-17 16-Jun-17	0% 0%	34 41	35 42								•	
LT.0110 Concrete Coring Test and Submit Reports	13	27-Jul-17	11-Aug-17	16-Jun-17	03-Jul-17	0%	34	35									
LT.0111 BD's Acknowledgement	45	12-Aug-17	25-Sep-17	04-Jul-17	17-Aug-17	0%	39	57			+						
BA14 and Testing at Area 6 if Option is Exercised			00p 11			5,5											
LT.0113 Submission of BA14	3	03-Feb-17	07-Feb-17	18-Mar-17	22-Mar-17	0%	-37	-12									
					1				1 1	1 1	ļ I I	1	<b>I</b>				
Secondary Baseline Actual Work	WEST KOWLOON CULTU FOUNDATION WORKS FOI					1							-	Date 0-Dec-16 Fc	Revisio r Information		cked Ap
Actual Work Remaining Work	AND THE EXTENDED								80.10 Sec. 1				• F			<u>_</u>	<u> </u> 7.11
Critical Remaining Work	SUMAMRY PROG			_ • •			5		Ga	-	-	-					
♦ Milestone	CONSTRUCTION WORK						Contraction of the										

•	Milestone
	Critical Remainin
	Remaining Work
	Actual Work
	Secondary Basel

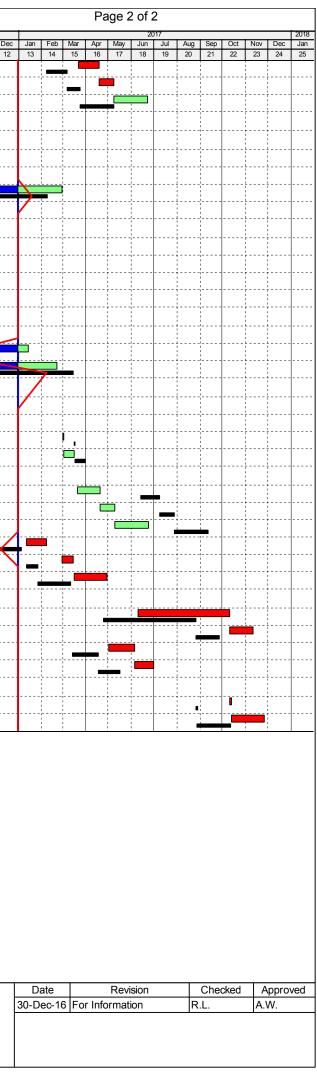


JUNIRACI	NO: CC/2015/3A/014		SU	MMARY	PROGRA		GRES	S AS	5 OF	30-	DEC	-201	16						
Activity ID	Activity Name	Durn. (Days)	Programme Rev A Start	Programme Rev A Finish	Current / Actual Start	Current / Actual Finish	Physical % Complete	Finish Variance	Float (Days)	Jan	Feb Ma	ar Apr	May	201 Jun		Aug {	Sep C	Oct No	v Dec
LT.0114	BD's Selection of Test Piles	28	07-Feb-17	07-Mar-17	22-Mar-17	19-Apr-17	0%	-43	-14	1	2 3	6 4		6	7	8		10 11	12
LT.0114	Concrete Coring Test and Submit Reports	15	07-Feb-17 07-Mar-17	24-Mar-17	19-Apr-17	09-May-17	0%	-43	-14										
		-				· · · · · · · · · · · · · · · · · · ·													
		45	24-Mar-17	08-May-17	09-May-17	23-Jun-17	0%	-46	51										
	tion and Lateral Support																		
Pipe Pi	ile in Areas 1 to 5								,										
LT.0120		40	05-Mar-16	26-Apr-16	05-Mar-16 A	08-Apr-16 A	100%	16					<u>.</u>						
LT.0121	Pre-grouting Works at Portions L05, L07, M14b and M12	101	23-Apr-16	23-Aug-16	18-Apr-16 A	26-Jul-16 A	100%	25								_			
LT.0122	Pipe Pile and Grout Curtain; Portions L04, L05, L14, L24, M14 and M14b (PP 441 nos and CPP 3 nos	215	21-May-16	08-Feb-17	12-Mar-16 A	28-Feb-17	92%	-17	102				<b>.</b>						
LT.3030	Clutched Pipe Pile and Grout Curtain; Portions M14a, L16 and L01 (CPP 82 nos.)	89	25-Jun-16	12-Oct-16	07-Jul-16 A	06-Oct-16 A	100%	4									<b></b> _	·	
Sheet F	Pile in Area 6																		
LT.0124	Sheet Piles Installation in Portion L06; 1,472m2	32	21-Jun-16	28-Jul-16	07-Jun-16 A	25-Jul-16 A	100%	4											
LT.2945	Sheet Piles Installation in Portions L07 and M12; 1,640m2	35	29-Jul-16	07-Sep-16	04-Jul-16 A	27-Sep-16 A	100%	-16											
LT.2950	Instrument Installation for Instrumental Sheet Pile	15	28-May-16	15-Jun-16	21-May-16 A	31-May-16 A	100%	13											
LT.2955	Drive Instrumental Sheet Pile and Report Submission	10	08-Jun-16	20-Jun-16	01-Jun-16 A	16-Jun-16 A	100%	4											
Contra	ct Administrator's Instruction No.8			1			1		1										
LT.3050	Pre-grouting Works adjacent Seawall Portion L03	21	17-Sep-16	13-Oct-16	16-Aug-16 A	28-Oct-16 A	100%	-12										<b>—</b>	
LT.3060	Pipe Pile and Grout Curtain; Portion L02 (PP 21nos.) + Lower Portion L14 (PP 2 nos.)	20	13-Sep-16	07-Oct-16	06-Dec-16 A	14-Jan-17	87%	-81	137										-
LT.3070	Clutched Pipe Pile and Grout Curtain; Portion L03 (CPP 104 nos. and PP 4 nos)	125	14-Oct-16	15-Mar-17	07-Oct-16 A	21-Feb-17	76%	19	108										
BA14				1											·				
LT.0126	Submission of BA14 for Stage 1 ELS Sheet Piling Works at Area 6 (PMC Withdrawn Submission)	2	08-Sep-16	09-Sep-16	08-Oct-16 A	02-Dec-16 A	100%	-68											<b>–</b>
LT.0127	BD's Acknowledgement (BA14 Submission Withdrawn)	14	09-Sep-16	23-Sep-16	03-Dec-16 A	03-Dec-16 A	100%	-70											- <u> </u>
LT.0128	Submission of BA14 for Stage 1 ELS Piling Works at Area 1 to 5	2	16-Mar-17	17-Mar-17	01-Mar-17	02-Mar-17	0%	13	102	+			-+	·					
LT.0129	BD's Acknowledgement	14	17-Mar-17	31-Mar-17	02-Mar-17	16-Mar-17	0%	15	129										
Pumpii	na Test																		
LT.0131	Install Area 1 to Area 5 Pumping Test Instrumentation & Wells (16 PW + 32 OW) and Submission of I	22	13-Jun-17	08-Jul-17	21-Mar-17	19-Apr-17	0%	65	77										
LT.0132	Carry Out Pumping Test in Area 1 to Area 5 and Submission to BD	20	09-Jul-17	28-Jul-17	20-Apr-17	09-May-17	0%	80	95										
LT.0133	Obtain BD's Acknowledgement of Area 1 to 5 Pumping Test Results	45	29-Jul-17	11-Sep-17	10-May-17	23-Jun-17	0%	80	112										
LT.0134	Install Area 6 Pumping Test Instrumentation & Wells (3 PW + 6 OW) and Submission of Initial Reading	21	07-Dec-16	04-Jan-17	11-Jan-17	07-Feb-17	0%	-26	-19										/
LT.0135	Carry Out Pumping Test in Area 6 and submission to BD	16	11-Jan-17	26-Jan-17	28-Feb-17	15-Mar-17	0%	-49	-46										
LT.0136	Obtain BD's Acknowledgement of Area 6 Pumping Test Results	45	26-Jan-17	12-Mar-17	16-Mar-17	29-Apr-17	0%	-49	-46										
	Stage 2 ELS and Excavation Works at Area 6	10					570	10	10					·					
LT.0138	-	102	25-Apr-17	26-Aug-17	09-Jun-17	10-Oct-17	0%	-37	-36										
LT.0138	Trim Pile Head and Clearance	27	25-Api-17 26-Aug-17	20-Aug-17 27-Sep-17	10-Oct-17	10-Oct-17 11-Nov-17	0%	-37	-36	<b></b>					·				
LT.3075	Submission of BA8 and BA10 for Bulk Excavation Works	35	14-Mar-17	18-Apr-17	02-May-17	05-Jun-17	0%	-37	-24	<b></b>					·				
LT.3075	Installation of Temporary Platform	22	14-Mar-17 18-Apr-17	16-May-17	02-May-17 05-Jun-17	30-Jun-17	0%	-49	-40	+					·				
		22	10-Apr-17	TO-IVIAy-17	00-3011-17	50-5 UII- 17	0 70	-39	-30										
	or Option Stage 2 ELS and Excavation Works at Area 6	-	00.4 17	00.4 /=	40.0 1.17	40.0 1.17	<b>C</b> 24	07		ļ									
LT.0141	Submission of BA14 for Stage 2 ELS and Excavation Works at Area 6	2	26-Aug-17	29-Aug-17	10-Oct-17	12-Oct-17	0%	-37	-36										
LT.0142	BD's Acknowledgement	45	28-Aug-17	12-Oct-17	13-Oct-17	26-Nov-17	0%	-46	-44		1							1	

	Secondary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
٠	<ul> <li>Milestone</li> </ul>

WEST KOWLOON CULTURAL DISTRICT AUTHORITY FOUNDATION WORKS FOR LYRIC THEATRE COMPLEX AND THE EXTENDED BASEMENT IN ZONE 3B SUMAMRY PROGRAMME BASED ON CONSTRUCTION WORKS PROGRAMME - REV. "A"





# 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	g Station	Action Level (mg/m <sup>3</sup> )	Limit Level (mg/m <sup>3</sup> )
AM	1	273.7	500
AM2	2A	274.2	500

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

<b>Monitoring Station</b>	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m³)
AM1	143.6	260
AM2A	151.1	260

## <u>Noise</u>

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 Pla	lan for	Air Quality	V
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informed of the results.

Event	Action									
	ET	IEC	WKCDA	Contractor						
Action Level										
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and WKCDA;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>						
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and WKCDA;</li> <li>Advise the WKCDA on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and WKCDA;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Monitor the implementation of remedial measures.</li> </ol>		<ol> <li>Submit proposals for remedial to WKCDA within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>						
Limit Level	monitoring.									
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform WKCDA, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results</li> </ol>	<ol> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible premedial measures;</li> <li>Advise the WKCDA on the effectiveness of the proposed remedial</li> </ol>	notification of failure in writing;	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>						

#### Event

### Action

2. Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, WKCDA, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst WKCDA, ET, and Contractor on the potentia remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly;</li> <li>Monitor the implementation of remedial measures</li> </ol>	notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree liwith the Contractor on the remedial measures to be implemented; 4. Ensure remedial	<ul> <li>action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.</li> </ul>

### **Construction Noise**

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

Event	Action			
	ET	IEC	WKCDA	Contractor
Action Level	<ol> <li>Notify WKCDA, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, WKCDA and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	investigation results	<ul><li>in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree with the Contractor</li></ul>	mitigation proposals to IEC and WKCDA;
Limit Level	<ol> <li>Inform IEC, WKCDA, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and WKCDA on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst WKCDA, ET, and Contractor on the potentia remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.</li> </ol>	<ol> <li>lin writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to</li> </ol>	<ul> <li>action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.</li> </ul>

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

### 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:

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

### E. Monitoring Schedule

# DECEMBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	<b>6</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring		8	9	10
11	<b>12</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring		14	15	<b>16</b> AM1, AM2A - 24hrTSP, 1hr TSP x3	17
18	19	20	21	<b>22</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	23	24
25	26	27	<b>28</b> AM1, AM2A - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring		30	31
		Notes: AM1 - International Commerc AM2A - Austin Road West (Op NM1A - International Comme	pposite to The Harbourside)			

# JANUARY 2017

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

### F. Calibration Certifications

31

### High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	:	AM1(ICC) K.T.Ho 16/10/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0767
Calibration Orfice and Standar Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	d Calibrat : : :	tion Relationship 2454 14 Mar 2016 2.09532 -0.03812 0.99994
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	: : : : : : : : : : : : : : : : : : : :	1013 298.18 1013 301

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.2	3.178	1.543	60	59.70
2	13 holes	8.4	2.884	1.403	52	51.74
3	10 holes	6.2	2.478	1.210	44	43.78
4	7 holes	4.4	2.087	1.024	34	33.83
5	5 holes	2.6	1.604	0.795	22	21.89

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):<u>49.892</u> Intercept(b): <u>-17.425</u>

Correlation Coefficient(r): 0.9991

Checked by:

Magnum Fan

Date: 23/10/2016

	High-Volume TSP Sampler 5-Point Calibration Record		
Location	:	AM1(ICC) K.T.Ho	
Calibrated by Date	:	16/12/2016	
<u>Sampler</u>			
Model	:	TE-5170	
Serial Number	:	S/N 0767	
Calibration Orfice and Standard C Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>alibration</u> : : : :	Relationship           2454           14 Mar 2016           2.09532           -0.03812           0.99994	
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18	
<u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1020 295	

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.375	1.637	58	58.50
2	13 holes	8.6	2.958	1.438	48	48.41
3	10 holes	6.4	2.551	1.245	40	40.34
4	7 holes	4.4	2.116	1.038	31	31.26
5	5 holes	2.6	1.626	0.805	20	20.17

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

### Sampler Calibration Relationship

Slope(m):<u>45.463</u> Intercept(b): <u>-16.295</u>

Correlation Coefficient(r): 0.9995

Checked by:

Magnum Fan

T

Date: 19/12/2016

### High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AM2A (Harbourside)
Calibrated by	:	K.T.Ho
Date	:	16/10/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 8919

Calibration Orfice and Standard	Calibration	<b>Relationship</b>
Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1013
Ta(K)	:	301

Resistance Plate		dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.475	1.684	60	59.70
2	13 holes	9.2	3.018	1.467	51	50.75
3	10 holes	7.2	2.670	1.301	44	43.78
4	7 holes	4.6	2.134	1.046	34	33.83
5	5 holes	2.6	1.604	0.794	24	23.880

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):<u>40.221</u>

Intercept(b):-8.238

5

Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 23/10/2016

### High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AM2A (Harbourside)
Calibrated by	:	K.T.Ho
Date	:	16/12/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 8919

Calibration Orfice and Standard	Calibration	<b>Relationship</b>
Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
Tstd (K)	•	290.10
Calibration Condition		
Pa (hpa)	:	1020
Ta(K)	:	295

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.4	3.551	1.720	62	62.53
2	13 holes	9.4	3.092	1.502	54	54.46
3	10 holes	7.2	2.706	1.319	48	48.41
4	7 holes	4.4	2.116	1.038	38	38.32
5	5 holes	2.6	1.626	0.805	28	28.24

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):<u>36.964</u>

Intercept(b):-0.799

T

Correlation Coefficient(r): 0.9990

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

Date: 19/12/2016



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

Operator	Tisch	6 Rootsmeter Orifice I.I	S/N ( D	0438320 2454	Ta (K) - Pa (mm) -	295 745.49
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4020 1.0060 0.9010 0.8590 0.7090	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9803 0.9792 0.9738	0.7037 0.9765 1.0880 1.1399 1.3735	1.4078 1.9909 2.2259 2.3345 2.8155	0.9957 0.9914 0.9893 0.9882 0.9828	0.7102 0.9855 1.0980 1.1504 1.3862	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie y axis =	t (b) = ent (r) =	2.10326 -0.06696 0.99989 	Qa slope intercept coefficie y axis =	(b) =	1.31703 -0.04232 0.99989

### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa =  $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$ 



### SIBATA SCIENTIFIC TECHNOLOGY LTD.

1-1-62, Nakane, Soka, Saitama, 340-0005 Japan TEL: 048-933-1582 FAX: 048-933-1591

### **CALIBRATION CERTIFICATE**

Date: February 17, 2016

Equipment Name		Digital Dust Indicator, Model LD-5R
Code No.	:	080000-72
Quantity	:	1 unit
Serial No.	:	620402
Sensitivity	:	0.001 mg/m3
Sensitivity Adjustment	:	783CPM
Scale Setting	:	February 8, 2016

We hereby certify that the avobe mentioned instrment has been calibrated satisfactory.

<sup>\*</sup> Sincerely

### SIBATA SCIENTIFIC TECHNOLOGY LTD.

Dhintaro Kamura

Shintaro Okamura Overseas Sales Division



#### **REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION**

0

REPORT NO. PROJECT NAME DATE OF ISSUE	: HK1610285 : PERFORMANCE CHECK / CALIBRATION OF DUST METER . : 15/6/2016
CUSTOMER	: ENVIROTECH SERVICES COMPANY
ADDRESS	: RM. 113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.
REPORT NO.	: HK1610285
PROJECT ITEM NO.	HK1610285-01
PERFORMANCE CHECK / CALIBRATED EQUI	PMENT
TYPE	: LASER DUST MONITOR
MANUFACTURER	: SIBATA
MODEL NO.	: LD-5R
SERIAL NO.	: 620402
EQUIPMENT NO.	
RECEIPT DATE	: 3/6/2016
PERFORMANCE CHECK / CALIBRATION DATE	E : 7/6/2016

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.

Wong Po Yan Pauline

Approved Signatory

(Testing Engineer)

Issue Date:

15/6/2016



EQUIPMENT REF NO.

LAST CALIBRATION DATE

#### REPORT OF PERFORMANCE CHECK / CALIBRATION PERFORMANCE CHECK / CALIBRATION OF DUST METER 15/6/2016 PROJECT NAME DATE OF ISSUE REPORT NO. HK1610285 PERFORMANCE CHECK / CALIBRATED EQUIPMENT TYPE LASER DUST MONITOR MANUFACTURER SIBATA MODEL NO. LD-5R SERIAL NO. 620402 EQUIPMENT NO. SENSITIVITIY ADJUSTMENT 783 CPM : SETTING PERFORMANCE CHECK / CALIBRATION DATE : 7/6/2016 STANDARD EQUIPMENT TYPE HIGH VOLUME AIR SAMPLER MANUFACTURER TISCH MODEL NO. TE-5170

PTL\_HV002

30/5/2016

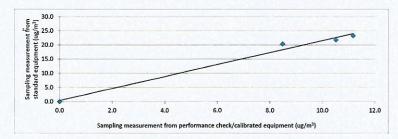
#### EQUIPMENT PERFORMANCE CHECK / CALIBRATION RESULTS:

Sensitivity Adjustment Scale Setting (Before Performance check / Calibration):	783	CPM
Sensitivity Adjustment Scale Setting (After Performance check / Calibration):	783	CPM

			Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup>	Total	Concentration in Count/Minute <sup>3</sup>	
Trial no. in 1-hr period	Time	Mean Temp (°C)		(Standard equipment)	Count <sup>2</sup>	(Performance Check / Calibrated equipment)	
				(Y - Axis)	(Performance Check / Calibrated equipment)	(X - Axis)	
Zero Check <sup>1</sup>	7/6/2016, 08:00	28.1	1008	0.0	0	0.0	
1	7/6/2016, 09:10 - 10:10	28.1	1008	21.8	631	10.5	
2	7/6/2016, 12:59 - 13:59	28.1	1008	23.3	670	11.2	
3	7/6/2016, 14:17 - 15:17	28.1	1008	20.4	509	8.5	

Linear Regression of Y on X Slope (K- factor) Correlation Coefficient Validity of Performance Check / Calibration Record

7/6/201



Notes · 1

Zero check conducted as per CAL003 SOP and manufacturer's manual as appropriate.

- 2. Total Count was measured by laser dust monitor.
- 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:	Kong Wing Yan, Emily	Signature:	ł	Date:	7/6/2016
Checked by:	Wong Po Yan, Pauline	Signature:	Jont.	_Date:	15/6/2016



Sun Creation Engineering Limited

**Calibration and Testing Laboratory** 

# Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

Description / 儀 Manufacturer / 集 Model No. / 型勁 Serial No. / 編號 Supplied By / 委	製造商 : 乾 : 託者 :	Precision Integrating Sour Rion NL-18 00360030 Envirotech Services Co. Room 113, 1/F, My Loft, New Territories, Hong Ko	nd Level Meter 9 Hoi Wing Road, <sup>2</sup>	Tuen Mun,	: / 收件日期:20 July	201
<b>TEST CONDIT</b> Temperature / 涩 Line Voltage / 賀	度: (23		Rela	tive Humidity / <sup>†</sup>	相對濕度 : (55±)	20)%
TEST SPECIF		測試規範			ĩ	4
DATE OF TES	T / 測試日期	: 29 July 2016				
The results do n	y to the particu ot exceed man	: ular unit-under-test only. uufacturer's specification. subsequent page(s).				
- The Governme	ent of The Hor ologies / Keys varz Laborator				on Laboratory	
Tested By 測試	:	H T Wong Technical Officer				
		2h	Date of I	CG110 .	1 August 2016	

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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

- 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 was performed before the test.
- 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	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UUT Setting				d Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 110	LA	А	Fast	94.00	1	94.4	± 0.7

### 6.1.2 Linearity

3

	UUT Setting				Value	UUT
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
60 - 120	LA	A	Fast	94.00	1	94.4 (Ref.) 104.4
				104.00 114.00		114.4

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

#### 6.2 Time Weighting

6.2.1 Continuous Signal

	UUT Setting			Applie	d Value	UUT	IEC 60651 Type 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
50 - 110	LA	A	Fast	94.00	1	94.4	Ref.
			Slow			94.4	± 0.1

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 c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所 c/o 香港新界屯門與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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate\_No. : C164166 證書編號

### 6.2.2 Tone Burst Signal (2 kHz)

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

### 6.3 Frequency Weighting

### 6.3.1 A-Weighting

	UU	T Setting		Appl	ied Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 110	LA	A	Fast	94.00	31.5 Hz	54.7	$-39.4 \pm 1.5$
					63 Hz	68.0	$-26.2 \pm 1.5$
					125 Hz	78.0	$-16.1 \pm 1.0$
					250 Hz	85.6	$-8.6 \pm 1.0$
					500 Hz	91.1	$-3.2 \pm 1.0$
					1 kHz	94.4	Ref.
					2 kHz	95.7	$+1.2 \pm 1.0$
					4 kHz	95.5	$+1.0 \pm 1.0$
					8 kHz	93.3	-1.1 (+1.5 ; -3.0)
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

		T Setting		Appl	ied Value	UUT	IEC 60651 Type 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	• (dB)
50 - 110	LC	C	Fast	94.00	31.5 Hz	91.3	$-3.0 \pm 1.5$
					63 Hz	93.5	$-0.8 \pm 1.5$
					125 Hz	94.2	$-0.2 \pm 1.0$
					250 Hz	94.4	$0.0 \pm 1.0$
					500 Hz	94.5	$0.0 \pm 1.0$
					1 kHz	94.4	Ref.
					2 kHz	94.3	$-0.2 \pm 1.0$
12000		101112-0011			4 kHz	93.6	$-0.8 \pm 1.0$
					8 kHz	91.4	-3.0 (+1.5 ; -3.0)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No. : C164166 證書編號

6.4

#### 4 Time Averaging

15

UUT Setting			Applied Value					UUT	IEC 60804	
Range (dB)	Mode	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
50 - 110	LAeq	A	10 sec.	4	1	1/10	110	100	100.1	± 0.5
					1	$1/10^{2}$		90	89.9	± 0.5
			60 sec.			$1/10^{3}$		80	79.6	± 1.0
			5 min.			1/104		70	69.7	± 1.0

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	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	Burst ec	uivalent level	$\pm 0.2 \text{ dB}$ (Ref. 110 dB
			continuous sound level)

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

Note :

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

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

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



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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.: C163248 證書編號

TTEM TESTED / 送檢.	項目	(Job No. / 序引編號: IC16-1307)。	Date of Receipt / 收件日期:	10 June 2016
Description / 儀器名稱	:	Sound Level Calibrator	*	
Manufacturer / 製造商	:	Rion		
Model No. / 型號	:	NC-73		
Serial No. / 編號	:	10997142		
Supplied By / 委託者	:	Envirotech Services Co.		
		Room 113, 1/F, My Loft, 9 Hoi Wing Ro	ad, Tuen Mun,	
		New Territories, Hong Kong	a that has been at	
	御料			an an an an an an an an an an an an an a
<b>TEST CONDITIONS</b> /	/HILL			
<b>TEST CONDITIONS</b> / Temperature / 溫度 :			Relative Humidity / 相對濕度 :	$(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 June 2016

### 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 Date of Issue 簽發日期 :

17 June 2016

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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K C/Lee Project/Engineer



Sun Creation Engineering Limited

Calibration and Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C163248 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 CL130 CL281 TST150A

<u>Description</u> Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C153519 PA160023 C161175

- 4. Test procedure : MA100N.
- 5. Results :

### 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2

#### 5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.985	$1 \text{ kHz} \pm 2 \%$	+ 1

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

Note :

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.

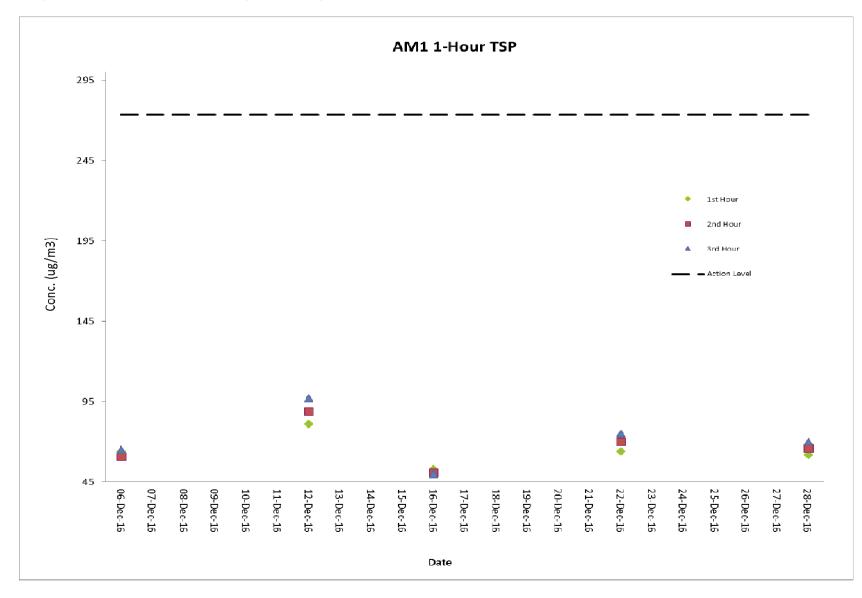
The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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### G. Graphical Plots of the Monitoring Results

				Conc. (µg/m <sup>3</sup> )	Action	Limit	
	Weather					Level	Level
Date	Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m³)	(µg/m³)
06-Dec-16	Fine	10:48 - 16:00	64	61	65	273.7	500
12-Dec-16	Cloudy	10:52 - 16:00	81	89	97	273.7	500
16-Dec-16	Sunny	8:02 - 11:02	53	51	50	273.7	500
22-Dec-16	Fine	10:50 - 16:00	64	70	75	273.7	500
28-Dec-16	Fine	10:48 - 16:00	62	66	70	273.7	500

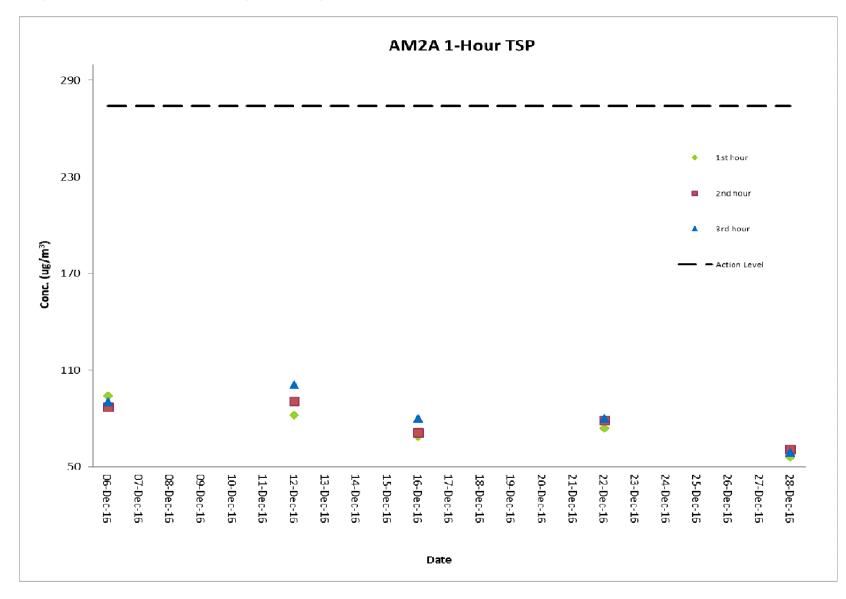
Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

				Conc. (µg/m <sup>3</sup> )	Action	Limit	
	Weather					Level	Level
Date	Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	(µg/m³)	(µg/m³)
06-Dec-16	Fine	11:02 - 16:10	94	87	90	274.2	500
12-Dec-16	Cloudy	11:04 - 16:10	82	91	101	274.2	500
16-Dec-16	Sunny	8:14 - 11:14	69	71	80	274.2	500
22-Dec-16	Fine	11:02 - 16:10	74	79	80	274.2	500
28-Dec-16	Fine	11:02 - 16:10	56	61	59	274.2	500

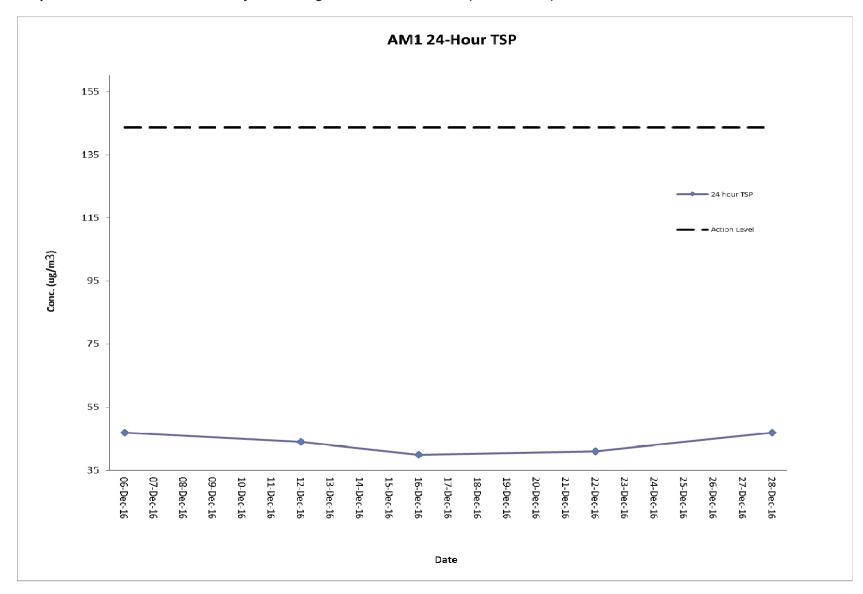
Air Quality Monitoring Result at Station AM2A (1-hour TSP)



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

Star	't	Finis	sh	Filter W	eight (g)	Elapse Rea		Sampling	Flov	v Rate (m <sup>3</sup> /	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Dec-16	10:50	07-Dec-16	10:50	2.8085	2.8911	20352.38	20376.38	24	1.23	1.23	1.23	47	Fine	143.6	260
12-Dec-16	10:50	13-Dec-16	10:50	2.8076	2.8858	20376.38	20400.38	24	1.23	1.23	1.23	44	Cloudy	143.6	260
16-Dec-16	08:00	17-Dec-16	08:00	2.8033	2.8797	20400.38	20424.38	24	1.33	1.33	1.33	40	Sunny	143.6	260
22-Dec-16	10:48	23-Dec-16	10:48	2.7883	2.8663	20424.38	20448.38	24	1.33	1.33	1.33	41	Fine	143.6	260
28-Dec-16	10:50	29-Dec-16	10:50	2.8105	2.901	20448.38	20472.38	24	1.33	1.33	1.33	47	Fine	143.6	260

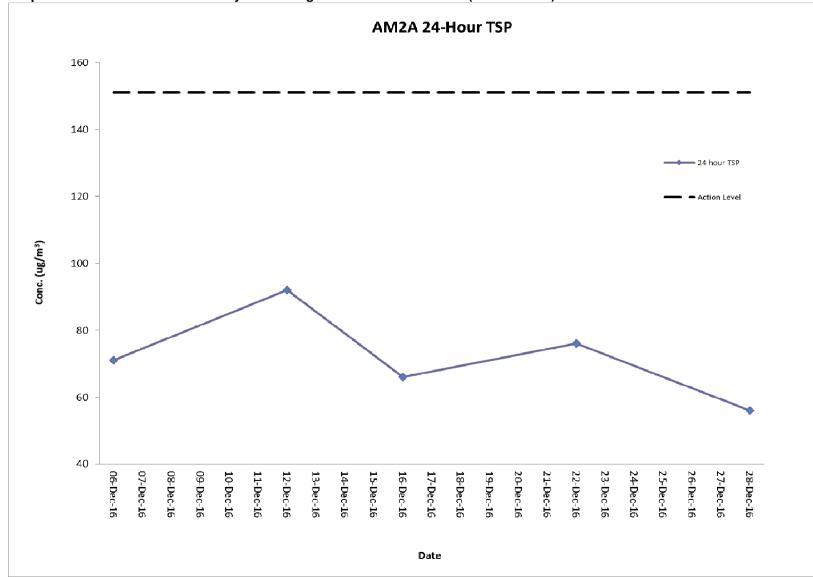
### Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Star	rt	Finis	sh	Filter W	eight (g)	Elapsed Time Reading				Sampling	Flov	v Rate (m <sup>3</sup> /	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level		
06-Dec-16	11:00	07-Dec-16	11:00	2.8026	2.9305	16007.59	16031.59	24	1.25	1.25	1.25	71	Fine	151.1	260		
12-Dec-16	11:02	13-Dec-16	11:02	2.8110	2.9762	16031.59	16055.59	24	1.25	1.25	1.25	92	Cloudy	151.1	260		
16-Dec-16	08:12	17-Dec-16	08:12	2.7927	2.9071	16055.59	16079.59	24	1.21	1.21	1.21	66	Sunny	151.1	260		
22-Dec-16	11:00	23-Dec-16	11:00	2.8071	2.9400	16079.59	16103.59	24	1.21	1.21	1.21	76	Fine	151.1	260		
28-Dec-16	11:00	29-Dec-16	11:00	2.8064	2.9232	16103.59	16127.59	24	1.46	1.46	1.46	56	Fine	151.1	260		

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



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

Date	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq</sub> (30 min.) dB(A)
06-Dec-16	14:00	68.0	62.7	
06-Dec-16	14:05	67.9	63.0	
06-Dec-16	14:10	67.9	62.9	69.0
06-Dec-16	14:15	68.8	64.0	09.0
06-Dec-16	14:20	68.0	63.9	
06-Dec-16	14:25	68.9	63.7	
12-Dec-16	14:00	66.0	62.0	
12-Dec-16	14:05	67.4	63.1	
12-Dec-16	14:10	66.1	61.7	67.6
12-Dec-16	14:15	66.7	62.8	07.0
12-Dec-16	14:20	66.8	62.7	
12-Dec-16	14:25	66.9	62.6	
22-Dec-16	15:40	68.2	64.1	
22-Dec-16	15:45	67.7	63.4	
22-Dec-16	15:50	68.0	64.0	69.0
22-Dec-16	15:55	66.7	62.9	09.0
22-Dec-16	16:00	67.2	63.8	
22-Dec-16	16:05	68.8	64.2	
28-Dec-16	14:00	66.2	62.0	
28-Dec-16	14:05	67.1	63.4	
28-Dec-16	14:10	68.0	64.0	68.1
28-Dec-16	14:15	67.9	63.8	00.1
28-Dec-16	14:20	66.2	62.7	
28-Dec-16	14:25	66.4	62.9	

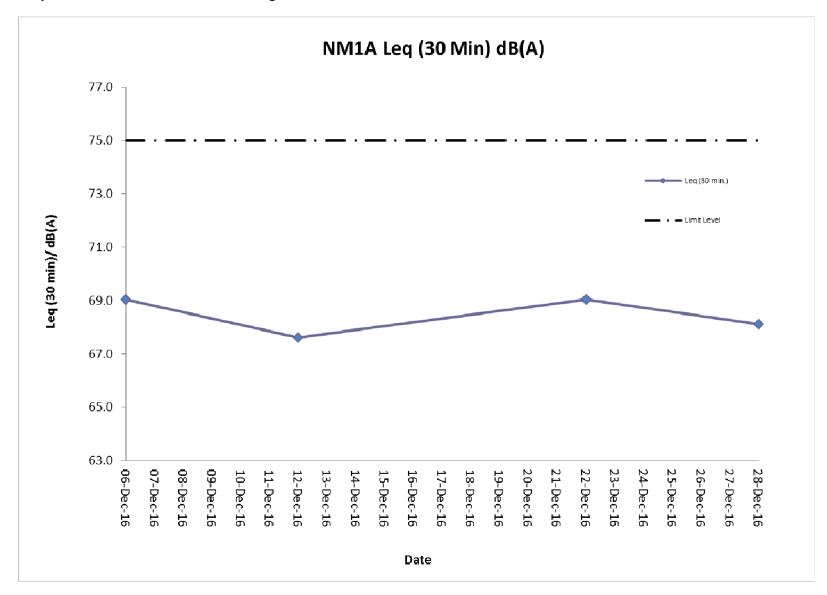
### Noise Monitoring Result at Station NM1A

### Remarks:

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

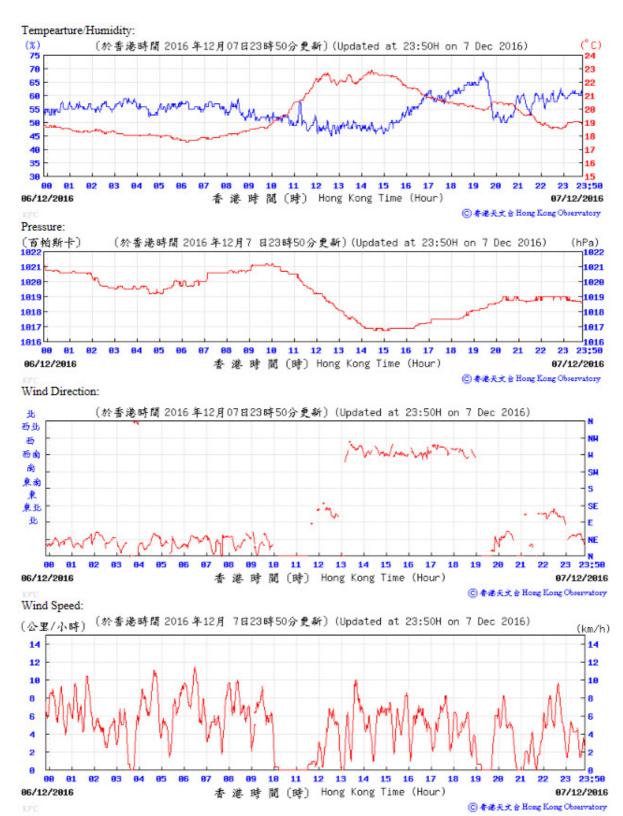


The station set-up of a free-field measurement at Station NM1A.

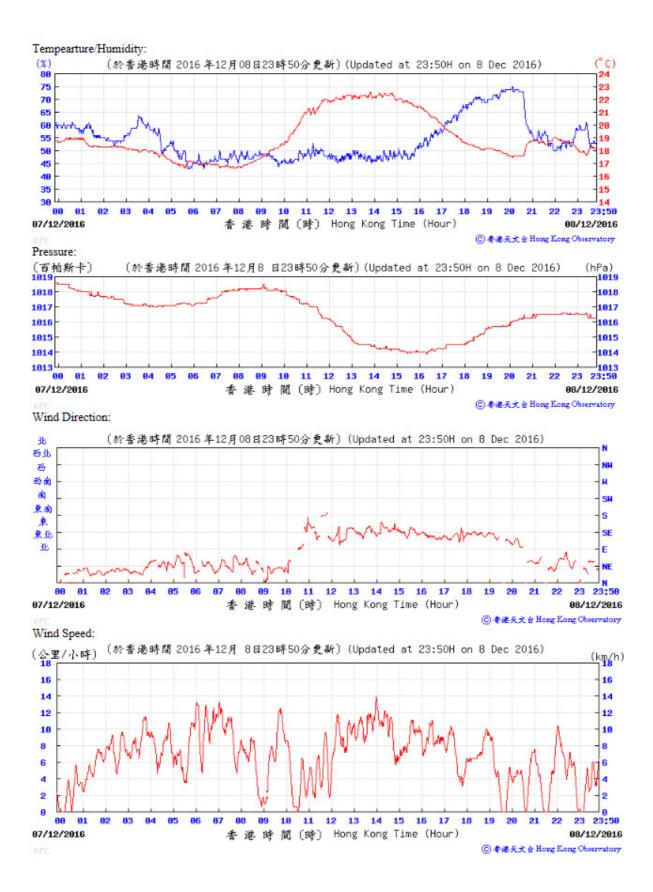


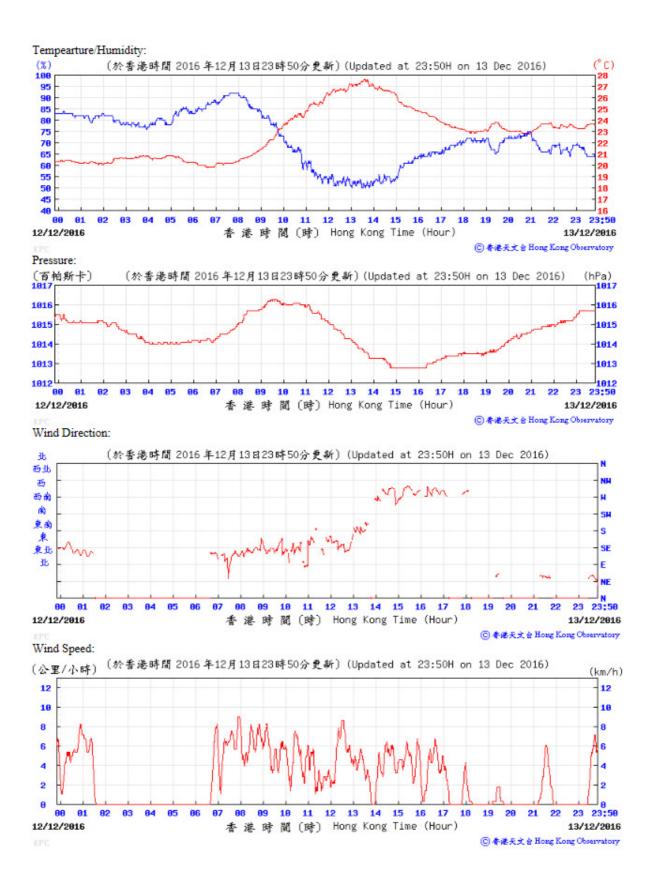
Graphical Presentation Noise Monitoring Result at Station NM1A

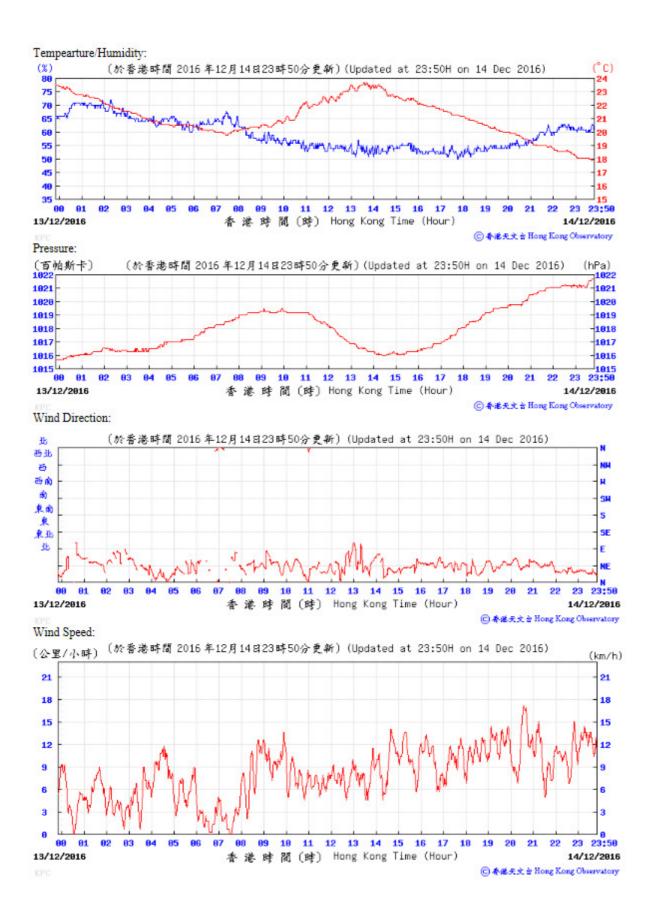
# H. Meteorological Data Extracted from Hong Kong Observatory

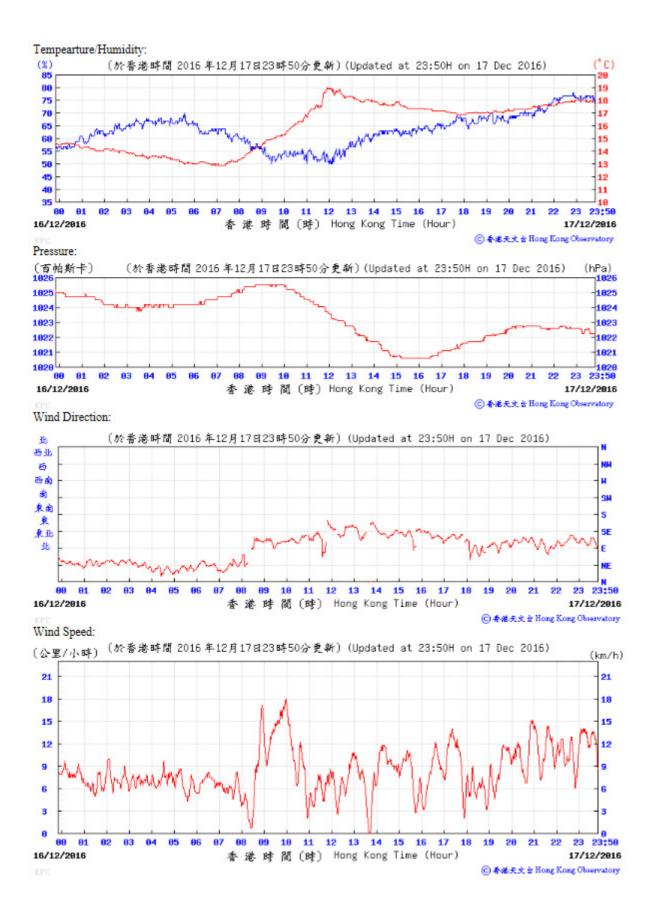


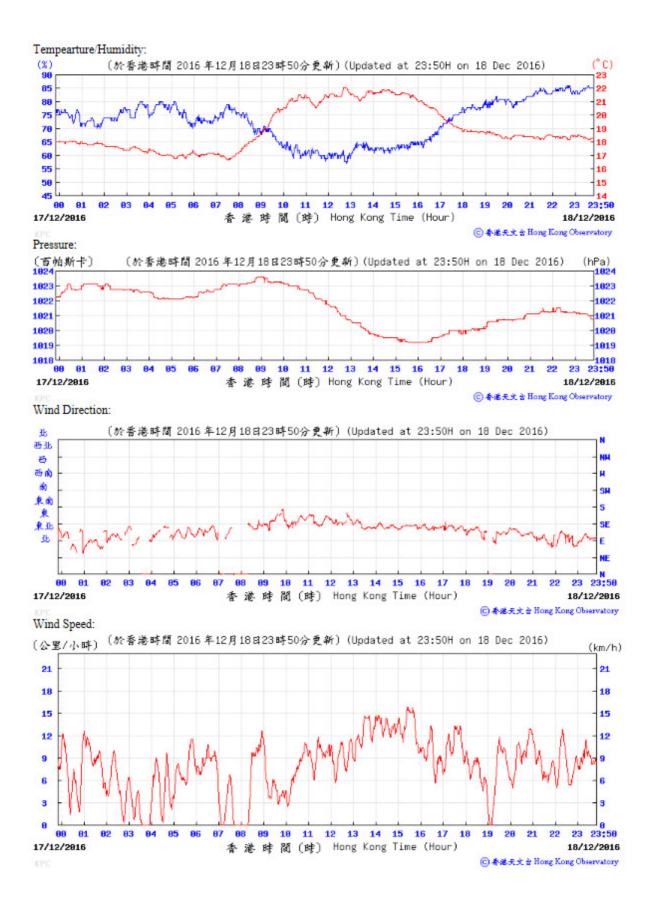
### Extract of Meteorological Observations for King's Park Automatic Weather Station, December 2016

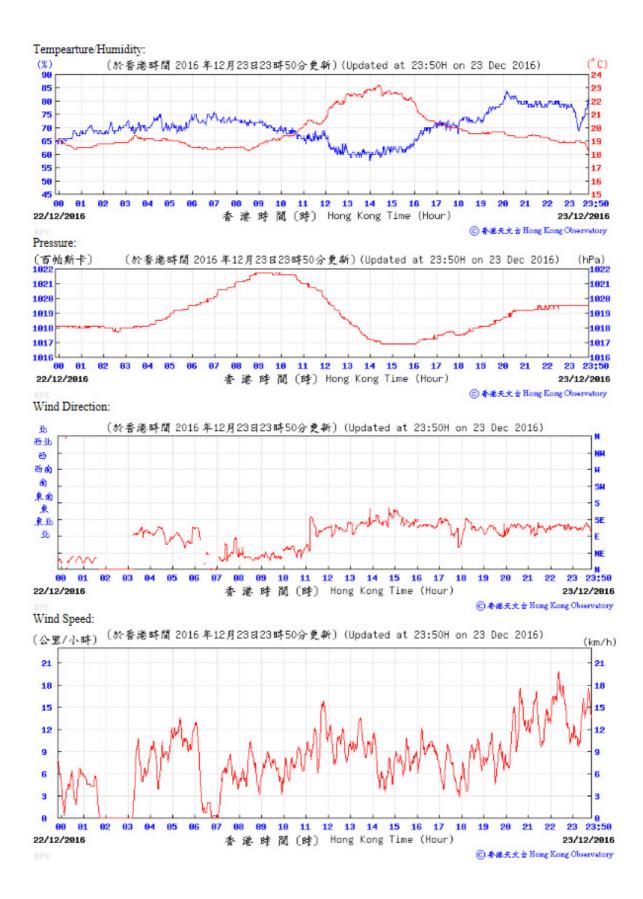


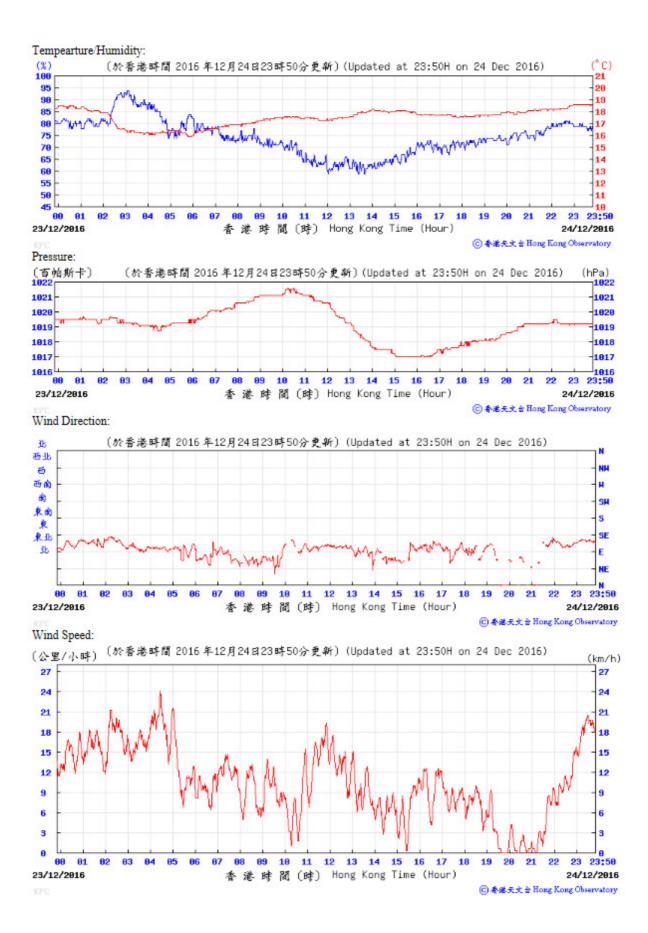


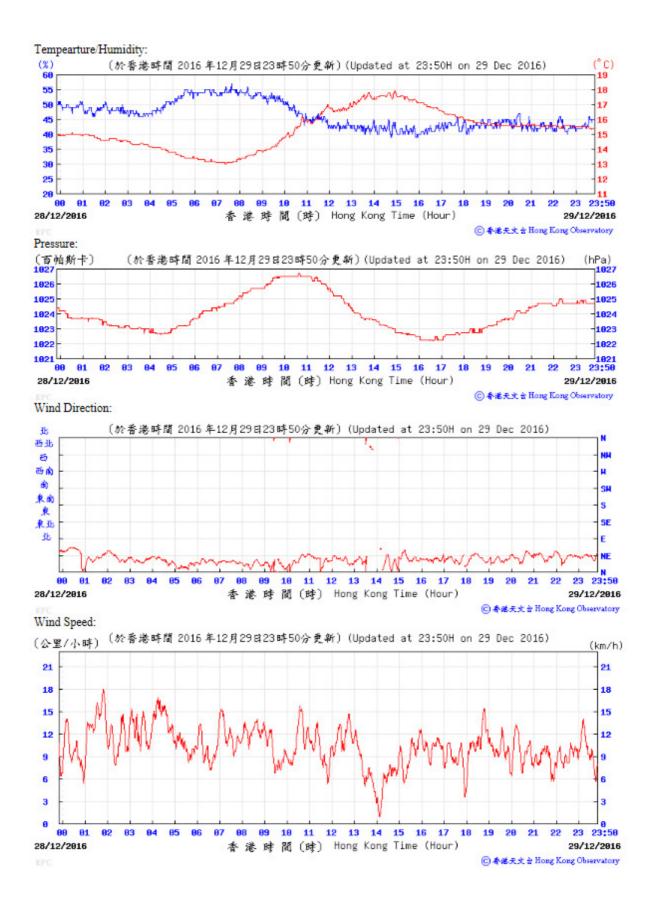


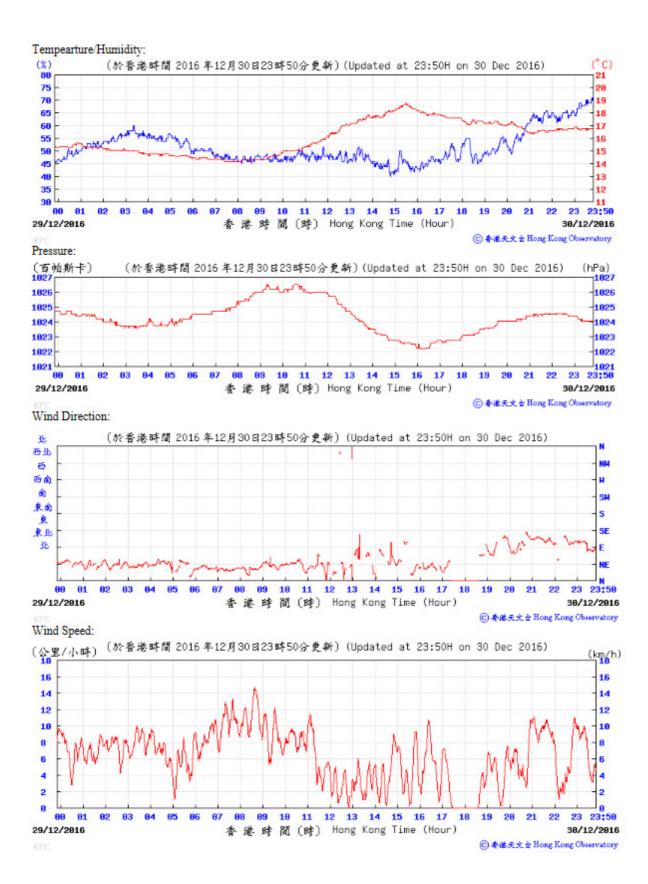












### I. Waste Flow table

# M+ Museum

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

		Actual Quanti	ties of Inert	C&D Mater	rials Generat	ed Monthly	onthly Actual Quantities of C&D Wastes Generated Monthly						
Month	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	0.3	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)	134133.6	0.0	25232.0	99456.0	9279.3	166.3	0.0	814.9	2.5	0.0	400.1	0.2	861.8
Total	210393.9	0.0	25232.0	137317.4	47678.2	166.3	0.0	917.4	2.5	0.0	400.1	1.2	995.4

Note:

-16.8 ton and 109.98 ton of inert C&D material were disposed of as public fill to 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

		Actual Quanti	ies of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly										
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	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	37.1	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	12487.59	0.0	0.0	13.85	0	0	0.0	1.26	9.02
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.7	0.4	1.5	0.0	7.6	191.6
2017													
Jan	0.0												
Feb	0.0												
Mar	0.0												
Apr	0.0												
May	0.0												
Jun	0.0												
Sub-total (2017)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.7	0.4	1.5	0.0	7.6	191.6

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

Note:

-3,573.98 ton and 8,913.61 ton of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 respectively in the reporting month.

## J. Environmental Mitigation Measures – Implementation Status

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

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
Air Quality I	npact (Construction)				
2.1 &	General Dust Control Measures				
10.3.1	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)	Rem	Obs		
2.1 &	Best Practice For Dust Control				
10.3.1	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:				
	Good Site Management				
	<ul> <li>Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by- products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.</li> </ul>	Rem/ Obs	¥		
	Disturbed Parts of the Roads				
	<ul> <li>Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul>	$\checkmark$	$\checkmark$		
	Exposed Earth				
	<ul> <li>Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</li> </ul>	N/A	N/A		
	Loading, Unloading or Transfer of Dusty Materials				
	All dusty materials should be sprayed with water immediately prior to any loading or transfer operation	$\checkmark$	$\checkmark$		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
	so as to keep the dusty material wet.				
	Debris Handling				
	<ul> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	$\checkmark$	$\checkmark$		
	Transport of Dusty Materials	Obs	1		
	<ul> <li>Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.</li> </ul>	Obs	v		
	Wheel washing	-	,		
	<ul> <li>Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	Obs	V		
	Use of vehicles				
	<ul> <li>The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	Obs	$\checkmark$		
	<ul> <li>Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.</li> </ul>	$\checkmark$	$\checkmark$		
	Site hoarding				
	<ul> <li>Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.</li> </ul>	$\checkmark$	$\checkmark$		
1&	Best Practicable Means for Cement Works (Concrete Batching Plant)				
0.3.1	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:				
	Exhaust from Dust Arrestment Plant				

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
	<ul> <li>Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection</li> </ul>	~	$\checkmark$		
	Emission Limits				
	All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke	$\checkmark$	$\checkmark$		
	Engineering Design/Technical Requirements				
	<ul> <li>As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions</li> </ul>	$\checkmark$	✓		
	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.	$\checkmark$	Rem		
Noise Impac	t (Construction)				
3.1 &  0.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities				
10.4.1	on nearby NSRs. The following package of measures should be followed during each phase of construction:	√	$\checkmark$		
	<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	,	,		
	<ul> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;</li> </ul>	V	$\checkmark$		
	<ul> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>	$\checkmark$	$\checkmark$		
	• mobile plant should be sited as far away from NSRs as possible; and	✓	$\checkmark$		
	<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	$\checkmark$	$\checkmark$		
.1 &	Adoption of Quieter PME				
0.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in <b>Table 4.26</b> in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	N/A	N/A		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
3.1 & 10.4.1	Use of Movable Noise Barriers 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.	✓	✓		
3.1 & 10.4.1	<b>Use of Noise Enclosure</b> / <b>Acoustic Shed</b> 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.	N/A	N/A		
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	✓	✓		
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A		
Water Qualit	y Impact (Construction)				
4.1 &	Construction site runoff and drainage				
10.5.1	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:				
	<ul> <li>At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction;</li> </ul>	~	√		
	<ul> <li>Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction.</li> </ul>	✓	✓		
	• All drainage facilities and erosion and sediment control structures should be regularly inspected and	Rem/ Obs	Rem/ Obs		

		Impleme	entation Stage
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex
	<ul> <li>maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> <li>Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via</li> </ul>	V	✓
	<ul> <li>silt removal facilities.</li> <li>All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> </ul>	~	✓
	<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.</li> </ul>	$\checkmark$	$\checkmark$
	<ul> <li>Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.</li> </ul>	$\checkmark$	$\checkmark$
	• 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.	$\checkmark$	$\checkmark$
	<ul> <li>Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.</li> </ul>	N/A	N/A
	Barging facilities and activities		
	Recommendations for good site practices during operation of the proposed barging point include:		
	<ul> <li>All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> </ul>	N/A	N/A
	<ul> <li>Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of</li> </ul>	N/A	N/A

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
	<ul> <li>materials or polluted water during loading or transportation;</li> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A N/A	N/A N/A		
.1 &	Sewage effluent from construction workforce				
10.5.1	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.	√	$\checkmark$		
.1 &	General construction activities				
10.5.1	<ul> <li>Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used.</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.</li> </ul>	Obs	Obs		
Waste Mana	gement Implications (Construction)				
6.1 &	Good Site Practices				
0.7.1	Recommendations for good site practices during the construction activities include:				
	<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site</li> </ul>	$\checkmark$	✓		
	<ul> <li>Training of site personnel in proper waste management and chemical handling procedures</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Provision of sufficient waste disposal points and regular collection of waste</li> </ul>	Rem/ Obs	$\checkmark$		
	<ul> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> </ul>	$\checkmark$	√		
	<ul> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> <li>Well planned delivery programme for offsite disposal such that adverse environmental impact from</li> </ul>	Obs	$\checkmark$		
	transporting the inert or non-inert C&D materials is not anticipated	✓	✓		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
6.1 &	Waste Reduction Measures				
0.7.1	Recommendations to achieve waste reduction include:				
	<ul> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force</li> </ul>	$\checkmark$	$\checkmark$		
	Proper site practices to minimise the potential for damage or contamination of inert C&D materials	$\checkmark$	$\checkmark$		
	<ul> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste</li> </ul>	$\checkmark$	$\checkmark$		
6.1 &	Inert and Non-inert C&D Materials				
10.7.1	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> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> <li>Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert</li> </ul>	$\checkmark$	$\checkmark$		
	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.	$\checkmark$	√		
	<ul> <li>The C&amp;D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</li> </ul>	$\checkmark$	$\checkmark$		
	<ul> <li>In order to monitor the disposal of inert and non-inert C&amp;D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction &amp; Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.</li> </ul>	~	✓		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
6.1 & 10.7.1	<ul> <li>Chemical Waste</li> <li>If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed</li> </ul>	Obs	Rem		
	<ul> <li>recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li> <li>Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.</li> </ul>	√	$\checkmark$		
6.1 &	General Refuse				
10.7.1	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.	1	$\checkmark$		
Land Contar	mination (Construction)				
7.1 & 10.8.1	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.				
	<ul> <li>The following measures are proposed for excavation and transportation of contaminated material:</li> <li>To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> </ul>	N/A	N/A		
	<ul> <li>Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with</li> </ul>	N1/A	<b>N</b> 1/A		
	<ul> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> </ul>	N/A N/A	N/A N/A		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	M+ Museum	Lyric Theatre Complex		
	• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;	N/A	N/A		
	<ul> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> </ul>	N/A	N/A		
	<ul> <li>Truck bodies and tailgates should be sealed to stop any discharge;</li> </ul>	N/A	N/A		
	<ul> <li>Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;</li> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> </ul>	N/A	N/A		
	<ul> <li>Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap</li> </ul>	N/A	N/A		
	354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and	N/A	N/A		
	Maintain records of waste generation and disposal quantities and disposal arrangements.	N/A	N/A		
Ecological Ir	npact (Construction)				
	No mitigation measure is required.				
Landscape a	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.	Obs	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		

		Implementation Stage			
EM&A Ref.	Recommendation Measures	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	$\checkmark$	1		
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	~	4		
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	1	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	4	0	0