

M+ Museum Main Works at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for December 2015

January 2016

Hsin Chong Construction Company Limited



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Hsin Chong Construction Company Limited

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Date

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13 Jan. 2016



Contents

Chapter Title

Page

i

Executive Summary

1	Introduction	1
1.1	Background	_ 1
1.2	Project Organisation	_ 1
1.3	Environmental Status in the Reporting Period	_ 1
1.4	Summary of EM&A Requirements	_ 2
2	Impact Monitoring Methodology	4
2.1	Introduction	_ 4
2.2	Air Quality	_ 4
2.3	Noise	_ 7
2.4	Landscape and Visual	_ 7
3	Monitoring Results	9
3.1	Impact Monitoring	_ 9
3.2	Air Quality Monitoring	_ 9
3.3	Noise Monitoring	10
3.4	Landscape and Visual Impact	10
4	Environmental Site Inspection	11
4.1	Site Inspection	11
4.2	Advice on the Solid and Liquid Waste Management Status	12
4.3	Status of Environmental Licenses and Permits	12
4.4	Recommended Mitigation Measures	13
5	Report on Non-compliance, Complaints, Notification of Summons and Successful Prosecutions	14
5.1	Record on Non-compliance of Action and Limit Levels	14
5.2	Record on Environmental Complaints Received	14
5.3	Record on Notifications of Summons and Successful Prosecution	14
5.4	Review of Reasons for and Implications of Non-compliance, Complaints, Summons and Prosecutions	14
5.5	Follow-up Actions Taken	14
6	Future Key Issues	15
6.1	Construction Works for the Coming Month(s)	15
6.2	Key Issues for the Coming Month	15
6.3	Monitoring Schedule for the Coming Month	15

Conclusions and Recommendations 7

16

363512/ENP/ENL/05/02/1 January 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx



7.1	Conclusions	16
7.2	Recommendations	16

Appendices

Appendix A.	Project Organisation
Appendix B.	Tentative Construction Programme
Appendix C.	Correspondence from The Harbourside and The Arch management offices
Appendix D.	Action and Limit Levels for Construction Phase
Appendix E.	Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
Appendix F.	Monitoring Schedule
Appendix G.	Calibration Certifications
Appendix H.	Graphical Plots of the Monitoring Results
Appendix I.	Meteorological Data Extracted from Hong Kong Observatory
Appendix J.	Waste Flow table
Appendix K.	Environmental Mitigation Measures – Implementation Status
Appendix L.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Figures

Figure 1 Site Layout Plan and Monitoring Stations

Tables

Table 1.1:	Summary of Impact EM&A Requirements	2
Table 2.1:	Air Quality Monitoring Parameters, Frequency and Duration	4
Table 2.2:	Air Quality Monitoring Station	4
Table 2.3:	TSP Monitoring Equipment	4
Table 2.4:	Monitoring Program for Landscape and Visual Impact during Construction Phase	7
Table 3.1:	Summary of 1-hour TSP monitoring results	9
Table 3.2:	Summary of 24-hour TSP monitoring results	9
Table 4.1:	Summary of Site Inspections and Recommendations	11
Table 4.2:	Status of Environmental Submissions, Licenses and Permits	12



Executive Summary

In October 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Hsin Chong Construction Company Limited (the Contractor) to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works 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 commenced on 31 October 2015.

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/A (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 conducted from 1 December to 31 December 2015. Construction phase weekly site inspections were carried out on 3, 11, 17, 24 and 31 December 2015 to confirm the implementation measures undertaken by the Contractor 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 K**.

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) in this reporting month. Noise monitoring was suspected as permission and access to the podium level of the identified noise sensitive receivers could not be granted. Liaision with the management office of the International Commerce Centre for the other location identified at the International Commerce Centre are in progress for granting access to conduct noise monitoring.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 3, 11, 17, 24 and 31 December 2015 to confirm the implementation measures undertaken by the Contractor 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 K.

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

One environmental complaint regarding construction noise was recorded in the reporting month.

Record of Notification of Summons and Successful Prosecutions

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

Future Key Issues

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

- Pile Cap Construction
- Formworks
- Concrete pouring
- Excavation
- Rebar /Earthing Installation
- Rebar Installation
- Pile cap side formworks
- Installation of Underground Drainage
- Preparation of Formworks & Cast underground pipes
- Waterproofing works
- Lay Rebar
- Formworks Installation

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



1 Introduction

1.1 Background

In October 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Hsin Chong Construction Company Limited (the Contractor) to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works 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 commenced on 31 October 2015.

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/A (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 project (i.e. The M+ Museum Mian Works at WKCD) includes part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ museum development aims to provide an iconic presence for the M+ museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions. Basement of the M+ museum, which is part of the WKCD integrated basement consists of the underpass road. This report focuses on main works for M+ museum.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/A. This Monthly EM&A Report presents the monitoring works conducted from 1 December to 31 December 2015. 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 of the Project undertaken include:

- Site formation
- Pile Cap Construction
- Local Excavation for Pile caps
- 1 363512/ENP/ENL/05/02/1 January 2016 \mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx



- Concrete pouring
- Excavation works for Pile
- Rebar /Earthing Installation
- Rebar Installation
- Pile cap side formworks

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.2** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements

Table 1.1: Summary of Impact 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.

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	AM2 - The Harbourside Tower 1	At least once every 6 days
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days
Noise	L _{eq} , 30 minutes	NM1- 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

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

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. 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 proposal of EM&A programme with details has been submitted to EPD on 2 December 2015 for consideration and comments was received on 11 December. The preparation of response to comments is in progress.

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. Correspondence from The Harbourside and The Arch management offices is attached in **Appendix C** for reference. Nevertheless, suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1 and noise monitoring at G/F of Harbourside will not be representative and thus NM1 will be suspended until permission and access is granted by The Harbourside management office or the other location identified at the International Commerce Centre. Liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring. Therefore, 2 air quality monitoring stations were confirmed for the impact monitoring.

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

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

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 K**.



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 F**.

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. All Galaxy Monitoring Farameters, Frequency and Datation					
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					

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

2.2.2 Monitoring Locations

The monitoring station was set up at the proposed location 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
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Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2	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 G**.

Table 2.3:TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	

4 363512/ENP/ENL/05/02/1 January 2016

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Equipment	Model		
High Volume Sampler	TE-5170 (Serial No.: 0767 and 8919)		
Calibrator	TE-5025A (Serial No.: 0438320)		
1-hour TSP monitoring			
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 2Z6240)		

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

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

^{363512/}ENP/ENL/05/02/1 January 2016



was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- 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 G**.

1-hour TSP Monitoring

Field Monitoring

6

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 G**.

Weather Condition

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

2.3 Noise

The Harbourside management office formally rejected our proposal of setting up noise monitoring equipment on its premises at the podium level of Tower 1 (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. Since noise monitoring at G/F of Harbourside will not be representative and thus NM1 is being suspended until permission and access is granted by The Harbourside management office or the other location identified at the International Commerce Centre. Liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.4 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.4:	Monitoring	Program for	Landscape and	Visual Impact	during (Construction Phase
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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

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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.

8



3 Monitoring Results

3.1 Impact Monitoring

Construction impact monitoring for air quality 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 AM2 are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix H**.

	Monitovina		1-ł	nour TSP (µg/ı	n ³)	_	Action	Limit
Monitoring Station	Monitoring Date	Start Time	1st Result	2nd Result	3rd Result	Range (µg/m³)	Level (µg/m³)	Level (µg/m ³)
	03-Dec-15	10:40	57	64	61			
	09-Dec-15	10:40	10:40 80		92			
A N 4 1	15-Dec-15	10:20	70	59	64	67 1/1	070 7	500
AIVIT	21-Dec-15	10:30	64	59	71	57-141	213.1	500
	24-Dec-15	8:02	112	134	101			
	30-Dec-15	10:30	141	125	119			
	03-Dec-15	10:52	70	74	80			
	09-Dec-15	10:52	82	88	93			
4140	15-Dec-15	10:30	94	87	77	70 170	074.0	500
AIVI2	21-Dec-15	10:41	81	79	100	70-172	274.2	500
	24-Dec-15	8:12	106	98	125			
	30-Dec-15	10:42	125	149	172			

Table 3.1: Summary of 1-hour TSP monitoring results

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2 are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix H**.

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (µg/m³)	Range (µg/m³)	Action Level (μg/m ³)	Limit Level (µg/m ³)
	03-Dec-15	10:42	55			
	09-Dec-15	10:42	49			
AM1	AM1 15-Dec-15 10:22	50	49-63	143.6	260	
	21-Dec-15 10:32		63			
	24-Dec-15	08:00	58			

Table 3.2: Summary of 24-hour TSP monitoring results

363512/ENP/ENL/05/02/1 January 2016

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Monitoring Station	Monitoring Date	Start Time	Monitoring Results (µg/m³)	Range (µg/m³)	Action Level (µg/m ³)	Limit Level (µg/m³)
	30-Dec-15	10:32	58			
	03-Dec-15	10:56	107			
	09-Dec-15	10:55	61			
4140	15-Dec-15	10:35	71	C1 107	151.1	200
AIVIZ	21-Dec-15	10:44	100	61-107		260
	24-Dec-15	08:15	61			
	30-Dec-15	10:46	64			

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

3.3 Noise Monitoring

10

The noise impact monitoring is being suspended until permission and access is granted by The Harbourside management office or the other location identified at the International Commerce Centre. Liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring. Please refer to **Section 2.3** for details.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 3, 17 and 31 December 2015 during the reporting month. 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 K**.



4 Environmental Site Inspection

4.1 Site Inspection

Construction phase weekly site inspections were carried out on 3, 11, 17, 24 and 31 November 2015. The joint site inspection with IEC, ET, ER and Contractor was held on 11 December 2015. No site inspection was conducted by the EPD during the reporting month. No non-compliance was recorded during the site inspection. 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)
20 Nov 2015	Air quality	The contractor was reminded to ensure cement mixing area is properly covered to prevent dust impact.	The cement mixing area was well covered (not in operation).	3 Dec 2015
20 Nov 2015	Waste managment	The contractor was reminded to move the chemicals off the site or provide mitigation measures to ensure no leakage, e.g. drip trays, etc.	All chemicals and grouting materials was removed off site.	14 Dec 2015
11 Dec 2015	Waste managment	Stagnant water should be removed from drip tray. The contractor was reminded to install cork to drain the stagnant water.	Stagnant water in drip trip was removed.	15 Dec 2015
11 Dec 2015	Water quality	Overflow was observed at the sedimentation tank. The contractor was reminded to review the capacity of the tank.	No overflow was observed at the sedimentation tank. The contractor is installing one more wastewater treatment tank.	17 Dec 2015
17 Dec 2015	Water quality	The contractor was reminded to remove stagnant water in site area.	Stagnant water in site area was removed.	18 Dec 2015
24 Dec 2015	Air quality	The dusty materials near the soak away pit was not well covered. The contractor was reminded to cover the dusty materials well or enhance water spraying to reduce dust impact.	The dusty materials was well covered.	30 Dec 2015
24 Dec 2015	Waste managment and noise	The contractor was reminded to clean up the drip tray of the air compressor. Noise label was missing and the contractor was reminded to put on noise label on air compressor.	The drip tray was cleaned up and the noise label was put on the air comporessor.	30 Dec 2015
24 Dec 2015	Noise	The contractor was reminded to adopt movable noise barriers for mobile machines or plants, e.g. beaker, to reduce noise impact.	The mobile machine was removed.	30 Dec 2015
31 Dec 2015	Waste managment	The contractor was reminded to clean up the drip tray of chemical storage for wastewater treatment.	Follow-up status will be provided in the next reporting month.	On-going
31 Dec 2015	Waste managment	The contractor was reminded to provide locks for chemical waste	Follow-up status will be provided in the next reporting month.	On-going

Table 4.1: Summary of Site Inspections and Recommendations

11 363512/ENP/ENL/05/02/1 January 2016

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Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
		storage.		

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractor has 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.

As advised by the Contractor, 29,631.5 ton of excavated waste was disposed, while 66.0 ton of general refuse was disposed of at SENT landfill. 0 ton of metals 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. 21.4 ton of inert C&D materials (grouting material) was reused in other projects. 1.0 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 the Project in the reporting month are shown in **Appendix J**.

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 4.2**.

Permit / License No.	Valid	Period		
/ Notification /				
Reference No.	From	То	Status	Remarks
Chemical Waste Produ	cer Registration			
5213-217-H2913-45	05-Nov-15		Valid	
Billing Account Constru	ction Waste Disposal			
7023393	13-Oct-15		Account Active	
Construction Noise Per	mit			
GW-RE1055-15	19-Oct-15	18-Apr-16	Valid	
GW-RE1220-15	04-Dec-15	03-Jun-16	Valid	This new construction noise permit was applied to replace the existing permit.

 Table 4.2:
 Status of Environmental Submissions, Licenses and Permits

12 363512/ENP/ENL/05/02/1 January 2016

\\mothmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx



Permit / License No.	Valid	Period		
/ Notification /	_		_	
Reference No.	From	То	Status	Remarks
Wastewater Discharge	License			
WT00022693-2015	12-Nov-15	Valid		

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 K**. In particular, the following mitigation measures were brought to attention during the site inspections:

Chemical and Waste Management

- All chemicals store on site should be provided with drip trays.
- Drip trays should be kept in good condition.
- Chemical waste storage should be securely closed.

Air Quality

- Regular watering with complete coverage should be implemented to reduce the overall dust emission of the construction site.
- Stockpiles of cement and other construction materials should be kept covered when not being used.
- Maintain high standard of housekeeping to prevent emission of fugitive dust.
- The cement mixing facility should be enclosed at least on top and 3 sides to prevent emission of fugitive dust.

Water Quality

- Construction solid waste, debris and refuse generated on-site are collected, handled and disposed of properly to avoid entering any nearby storm water drain.
- Silty effluent should be treated/ desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Stagnant water in site area should be cleared.
- The capacity of the wetsep should be reviewed to avoid overflow problem.

Noise

- Movable noise barriers should be adopted for mobile plants or machines ot reduce noise impact.

13



5 Report on Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

5.1 **Record on Non-compliance of Action and Limit Levels**

For this reporting month, there was one action level breached which was a noise complaint referred from EPD and no breach of Limit Levels for Air Quality monitoring.

5.2 **Record on Environmental Complaints Received**

For this reporting month, one environmental complaints were referred from EPD. There are a total of 1 environmental complaints since commencement of the construction. The complaints were handled in accordance to the EM&A Manual and relevant parties including the Engineer's Representative and IEC were informed of the complaint.

One complaint was referred from EPD on 18 December 2015 regarding a noise complaint from a resident of Harbourside. The complainant claimed that the piling works at the M+ Museum construction site had caused noise problem. It occurred at 4pm every weekday and affected the receivers at the Harbourside. The complaint handling procedures in accordance with the EM&A Manual has been taken. The investigation found that no piling work was conducted on site since the commencement date of the project. According to the site diary on 12 December 2015, the major work may cause noise nuisance was breaking of existing bore pile. However, breaking work usually carry out for most of the working hours but not only after 4 p.m. Noise measurement at the ground floor of the Harbourside was conducted and the Leq (30min) measured was 67.0-67.6 dB(A). No excedencece was recorded. It is understood that concrete breaking may cause noise impact to public although there was no exceedance recorded. Meanwhile, noise from other construction sites adjacent to the project site might cause the cumulative noise impact. The contractor has undertaken mitigation measure, i.e. to reduce the noise impact.

The cumulative statistics on complaints were provided in Appendix L.

5.3 Record on Notifications of Summons and Successful Prosecution

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

5.4 Review of Reasons for and Implications of Non-compliance, Complaints, Summons and Prosecutions

As no notifications of summons or successful prosecution were received, the associated review was not required.

5.5 Follow-up Actions Taken

As no notifications of summons or successful prosecution were received, the associated follow-up actions were not required.



6 Future Key Issues

6.1 Construction Works for the Coming Month(s)

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

- Pile Cap Construction
- Formworks
- Concrete pouring
- Excavation
- Rebar /Earthing Installation
- Rebar Installation
- Pile cap side formworks
- Installation of Underground Drainage
- Preparation of Formworks & Cast underground pipes
- Waterproofing works
- Lay Rebar

15

Formworks Installation

6.2 Key Issues for the Coming Month

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.

6.3 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 in accordance with the approved EM&A Manual has commenced since 31 October 2015. The noise impact monitoring is being suspended until permission and access is granted by The Harbourside management office or the other location identified at the International Commerce Centre. Liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring. Please refer to Section 2.3 for details. The tentative monitoring schedule for the coming month is shown in the **Appendix F**.



7 Conclusions and Recommendations

7.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works commenced on 31 October 2015.

Monitoring of air quality with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP 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 in the reporting month. Noise monitoring was suspended as the permission and access at podium of the identified noise sensitive receiver could not be granted. Liaision with the management office of the International Commerce Centre for the other location identified at the International Commerce Centre are in progress for granting access to conduct noise monitoring.

One environmental complaint and no notifications of summons or successful prosecution were received during the reporting month.

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

7.2 Recommendations

16

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

- Appendix A. Project Organisation
- Appendix B. Tentative Construction Programme
- Appendix C. Correspondence from The Harbourside and The Arch management offices
- Appendix D. Action and Limit Levels for Construction Phase
- Appendix E. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
- Appendix F. Monitoring Schedule
- Appendix G. Calibration Certifications
- Appendix H. Graphical Plots of the Monitoring Results
- Appendix I. Meteorological Data Extracted from Hong Kong Observatory
- Appendix J. Waste Flow table
- Appendix K. Environmental Mitigation Measures Implementation Status
- Appendix L. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions



Appendix A. Project Organisation

19 363512/ENP/ENL/05/02/1 January 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx



Table B-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 Officer	Mr. Andy Leung	9489 0035
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



Appendix B. Tentative Construction Programme

363512/ENP/ENL/05/02/1 January 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx

20

Ac	tivity ID	Activity Name	Planned	Planned	Planned	Planned %	Actual %	Total	December	January	Fe
			Duration	Start	Finish	Complete	Complete	Float		7 03 10 17 24	31 07
	M+ 3 Months	s Rolling Programme Progress Update 013 - 30 Dec 15	198	26-Sep-15	31-May-16	0%	37.62%	222			
	M+.10 Prelims		198	26-Sep-15	31-May-16	0%	37.62%	222			
Ē	M+ 10.00 Key F		126	06-Nov-15	11-Mar-16	0%	38.92%	343			
			0			0%	0%	385			
	3M3A1020	Arress date M05 - SPS	0			0%	0%	385			Acc
	3M3A1030	Access date M06 - ICP	0			0%	0%	385			♦ Aco
	3M3A1040	Access date M07 - ICP	0			0%	0%	385			Aco
	3M3A1050	Access date M22 - ICP/SPS	0			0%	0%	385			🔷 Aco
	3M3A1060	Access date M23 - Park Area	0			0%	0%	427		Access date M23 - Park Area, Access date M23 - Park Area	a
	3M3A1070	Access date M32 - ICP & SPS	0			0%	0%	385			Acc
	3M3A1080	Access date M65, M67, M68 - Virtual Mock Up (VMU)	0			0%	0%	428	Access date M65 , M67 , M68 - Virtual Mock	Jp (VMU), Access date M65, M67, M68 - Virtual Mock Up (V	MU)
	Vacation Date		126	06-Nov-15	11-Mar-16	0%	38.92%	343			
	3MVD1000	M21-M+ north west area within at-grade road, M22-ICP/SPS frontage within at-grade road, (M72)	0	23-Dec-15		100%	0%	428	21-M+ north west area within at-grade road, M22-IC	P/\$PS frontage within at-grade road, (M72), M21-M+ north w	est area within at-grade r
	3MVD1010 2MV/D1020	M34-Area between park phase 3 boundary and new access raod, M35 Temp Access Road Junction at KVB	0	06-NOV-15		100%	100%	242	new access raod, M35 Temp Access Road Junction	at KVB, M34-Area between park phase 3 boundary and new	access raod, M35 Temp A
	Milestone Date	e	32	28-Nov-15	30-Dec-15	0%	100%	428			
	Cost Centre A -	Preliminaries & General requirements	7	23-Dec-15	30-Dec-15	0%	0%	428			
	3MMSA01	Complete Construction Programme and Methodology Submission and Presentation	0	23-Dec-15		100%	0%	428	ete Construction Programme and Methodology Sut	mission and Presentation, Complete Construction Programme	and Methodology Submi
	3MMSA02	Obtain approval from Contractor Admin on: Proj Man Doc's. Construction Prog., Insurance, mobilisation, etc	0	23-Dec-15		100%	0%	428	approval from Contractor Admin on: Proj Man Doc	s. Construction Prog., Insurance, mobilisation, etc, Obtain app	roval from Contractor Adr
	3MMSA03	Compliance Review to the Contract Administrator's satisfaction	0	30-Dec-15		0%	0%	428		Compliance Review to the Contract Administrator's satisfact	on, Compliance Review t
	Cost Centre B -	M+	0	28-Nov-15	28-Nov-15	0%	0%				
	3MMSB01	Complete Initial Mobilization (3nr Excavators)	0	28-Nov-15	00.11	100%	100%		ete Initial Mobilization (3nr Excavators), Complete Ir	itial Mobilization (3nr Excavators)	
	Other Informati	on as requested by the Contract Administrator	0	20-Nov-15	20-Nov-15	0%	0%				
	3MMS01	Upprain Interface Schedule from CA (Draft for Comments)	0	20-Nov-15	31. Mov. 16	100%	100%	222	aule from CA (Draft for Comments), Obtain Interfa	ze ponedule from CA (Dratt for Comments)	
	WI+.10.10 Site A		158	10-100-15	ST-IWay-16	0%	22.22%	222			
	M+ Site Offices		158	16-Nov-15	31-May-16	0%	22.22%	222			
	Stage 1		11	16-Nov-15	28-Nov-15	0%	100%				
	Existing Cor	namer Omices - Area M10	11	10-1007-15	20-1007-15	0%	100%		o		
	3MSO015	Existing Container Offices to be relocated to Area M66	0	28-Nov-15	28-Nov-15	100%	100%		g Container Offices to be relocated to Area M66		
	Stare 2	Relocate Existing Container Offices from Area M10 to Area Mi66	5	16-Nov-15	20-INOV-15	100%	100%	222	ntainer Offices from Area M10 to Area M66		
	Temporary C	Container Offices - Area M66	158	16-Nov-15	31-May-16	0%	22.22 %	222			
		Among / Enrora Ang Meg	0	10110710	16 Nev 15	100%	100%		Access (Egraps, Area MCC		
	3MSO065	Access / Egress - Area Moo	17	16-Nov-15	04-Dec-15	100%	100%		Access / Egress - Area Moo		
	3MSO005	Period for Occupying the Temporary Containers	158	16-Nov-15	31-May-16	22.78%	20.25%	222			
	3MSO085	Demobilize Containers	14	16-May-16	31-May-16	0%	0%	222			
	Clocken Fla	p Event	17	16-Nov-15	04-Dec-15	0%	100%				
	3MSO080	Setup for 5m wide Strip for Clocken Flap Portaloo	10	16-Nov-15	26-Nov-15	100%	100%		5m wide Strip for Clocken Flap Portaloo		
	3MSO095	Clocken flap	3	27-Nov-15	29-Nov-15	100%	100%		ken flap		
	3MSO105	Demobilize Toilet	5	30-Nov-15	04-Dec-15	100%	100%		Demobilize Toilet		
	Stage 3		119	28-Nov-15	27-Apr-16	0%	20.33%	250			
	Contractor's	Site Office - Area M10 (1000m2)	49	05-Dec-15	05-Feb-16	0%	22.22%	313			
	3MSO021	Start clearing and setting up of Contractor's Office at Area M10	0	23-Dec-15		100%	0%	301	Start clearing and setting up of Contractor's	Office at Area M10, Start clearing and setting up of Contractor	s Office at Area M10
	3MSO031	Site Construction / Setup 1000m2 / 100nr person Office with 2 Levels	45	05-Dec-15	30-Jan-16	40.56%	22.22%	313			Site Construction / Setup
	3MSO041		0	05-Feb-16	27 Apr 16	0%	0%	313		•	start to Occupy, Start to C
	ASIO - Area	L 22 & L 23 (306 U m2)	119	20-110-15	27-Apr-16	0%	20.33%	250			
	3MSO000 2MSO005	Prepare submission to BD & FSD Kopure Sub-Contractor Works	0	28-N0V-15	28-N0V-15	100%	0%	252	re submission to BD & FSD		
	3MSO003	CAL-Design / Approvals	2	23-Dec-15	24-Dec-15	100%	0%	250	AL - Design / Approvals		
	3MSO020	FSD / Liaise / Approvals	25	28-Dec-15	26-Jan-16	8%	0%	321		FSD / Liaise / Approvals	
	3MSO030	Konwoo S/C Works	84	12-Jan-16	26-Apr-16	0%	0%	250			
	3MSO040	Start to Occupancy	0	27-Apr-16		0%	0%	250			
	M+.10.40 Site A	Administration	127	26-Sep-15	02-Mar-16	0%	53.07%	281			
	Statutory proce	edures and consents (e.g. notification, permit, consent, etc.)	0	04-Dec-15	04-Dec-15	0%	75.56%	406			
	Statutory Notic	e & Forms	0			0%	75.56%	406			
	3MSA006	EPD - Storm water discharge permit to harbour application & approval	0			0%	75.56%	406	<u><</u>	EPD - Storm water discharge pe	rmit to harbour applicatio
	Building Depart	iment Consents	0	04-Dec-15	04-Dec-15	0%	0%	-18			
	3MSA007	ELS (Stage 2)	0		04-Dec-15	100%	0%	-18	ELS (Stage 2), ELS (Stage 2)		
	Key Domestic S	Subcontractors	68	26-Sep-15	03-Dec-15	0%	95.04%	425			
	Finalize Major s	ubcontractor agréements	68	26-Sep-15	03-Dec-15 20 Nov 15	100%	95.04%	425	thar Eacodo		
	3MDS 10001	Alliance - Concrete	68	26-Sep-15	29-INOV-15	100%	96%	427	Alliance - Concrete		
	3MDS.10002	Ming Tai - Formworks	66	26-Sep-15	30-Nov-15	100%	99%	427	ing Tai - Formworks		
	3MDS.10004	Tin Wo - Rebar	66	26-Sep-15	30-Nov-15	100%	99%	427	n Wo - Rebar		
	3MDS.10005	Gammon Steel - Steel Truss	67	26-Sep-15	01-Dec-15	100%	95%	425	Gammon Steel - Steel Truss		
	3MDS.10006	Liebherr- Tower Crane	68	26-Sep-15	03-Dec-15	100%	98%	427	Liebherr- Tower Crane		
	3MDS.10007	Hsin Chong Aster - MEP - Drainage	64	26-Sep-15	28-Nov-15	100%	99%	427	Chong Aster - MEP - Drainage		
	3MDS.10008	Hsin Chong Aster - MEP - Earthing	64	26-Sep-15	28-Nov-15	100%	99%	427	Chong Aster - MEP - Earthing		
	3MDS.10009	Chun Sing - ELS	66	26-Sep-15	30-Nov-15	100%	99%	372	nun Sing - ELS		
	Design & Reali		146	09-Oct-15	02-Mar-16	0%	49.64%	345			
	3MDP 1001	Prenaration and submission for BIM for B2 I Inderground	146	09-Oct-15	02-Mar-16 03-Nov-15	100%	49.64%	345	und		
	3MDR.1007	Consultant/CA Review & Approval (MJV)	20	04-Nov-15	30-Nov-15	100%	100%		onsultant/CA Review & Approval (M.IV)		
	3MDR.1002	Preparation and submission for CSID / CBWD for B2 underground	29	09-Oct-15	06-Nov-15	100%	100%		or B2 underground		
	3MDR.1004	Consultant/CA Review & Approval	14	18-Nov-15	01-Dec-15	100%	100%		Consultant/CA Review & Approval		
	3MDR.1005	Preparation and submission for Drainage drawings at B2 underground	57	09-Oct-15	05-Dec-15	100%	100%		Preparation and submission for Drainage dra	wings at B2 underground	
	3MDR.1006	Consultant/CA Review & Approval	14	24-Dec-15	06-Jan-16	42.86%	100%		Consultant/CA Re	riew & Approval	
	3MDR.1007	Preparation and submission for BIM at B2/F	33	23-Oct-15	24-Nov-15	100%	100%	ļ	Id submission for BIM at B2/F		
	3MDR.1008	Consultant/CA Review & Approval	14	28-Nov-15	11-Dec-15	100%	100%		Consultant/CA Review & Approv		
	3MDR.1009	Preparation and submission for CSID / CBWD at B2/F	36	23-Oct-15	27-Nov-15	100%	100%	245	on and submission for CSID / CBWD at B2/F		
	SIVIDR.1010		14	∠o-IN0V-15	II-Dec-15	100%	80%	345	Consultant/CAReview & Approv		
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M+ 3 Months Rolling Programme

3MRP Rev B 1st draft Progress Update 014 - 30 Dec 15

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Activity ID	Activity Name	Planneo	d Planned Start	Planned Finish	Planned % Complete	Actual % Complete	Total Float	December 3	Janua 4	ry	Fe	ebruary 5		March 6	April 7
01100 1011			00.0.145		1000/	4000/		06 13 20 2	27 03 10	17 24	31 07	14 21	28 06	13 20	27 03
3MDR.1011 3MDR.1012	Preparation and submission for BIM at B1/F Consultant/CA Review & Approval	60	30-Oct-15 06-Jan-16	28-Dec-15 19-Jan-16	100%	100%	411		reparation and submission for BIM	at B1/F ht/CA Review & Approval					
3MDR.1013	Preparation and submission for CSID / CBWD at B1/F	68	30-Oct-15	05-Jan-16	89.86%	95%	345	-	Preparation and sub	mission for CSID / CBWD	at B1/F				
3MDR.1014	Consultant/CA Review & Approval	14	06-Jan-16	19-Jan-16	0%	0%	408			Consultant/CA Revie	w & Approval				
3MDR.1015	Preparation and submission for BIM at LG/F	49	28-Nov-15	15-Jan-16	65.64%	50%	345		Pi	eparation and submission	for BIM at LG/F				
3MDR.1016 2MDR 1017	Consultant/CA Review & Approval Propagation and submission for CSID / CRW/D at LC/E	14	21-Jan-16	03-Feb-16	0%	0%	387			Broparation and c	onsultant/CA Review & Ap	pproval			
3MDR.1017 3MDR.1018	Consultant/CA Review & Approval	14	20-110V-13 21-Jan-16	03-Feb-16	0%	40 %	345				Consultant/CA Rev	view & Approval			
3MDR.1019	Preparation and submission for BIM at G/F	38	11-Dec-15	17-Jan-16	50.67%	30%	345			Preparation and submiss	ion for BIM at G/F				
3MDR.1020	Consultant/CA Review & Approval	14	23-Jan-16	05-Feb-16	0%	0%	379				Consultant/CA Rev	view & Approval			
3MDR.1021	Preparation and submission for CSID / CBWD at G/F	83	11-Dec-15	02-Mar-16	22.89%	20%	345				i		Preparation and su	ubmission for CSID	/ CBWD at G/F
3MDR.1022	Consultant/CA Review & Approval	14	23-Jan-16	05-Feb-16	0%	0%	345							Consultant/	CA Review & Approval
3MDR 1023	Study of Underground utilities for ICP/SPS	90	16-Oct-15	13-Jan-16	83.33%	70%	401		Study	of Underground utilities fo	ICP/SPS				
Pre-construction	submission for the early works	112	26-Sep-15	13-Feb-16	0%	64.54%	306								
Method Stateme	t & Material Submission	103	09-Oct-15	13-Feb-16	0%	61.61%	306								
3MPS.1025	Dewatering proposal	7	09-Oct-15	15-Oct-15	100%	100%									
3MPS.1026	Consultant/CA Review & Approval	45	16-Oct-15	30-Nov-15	100%	100%		onsultant/CA Review & Approval							
3MPS.1026a 3MPS 1026b	New Revised Dewatering Proposal Method Statement	25	30-Oct-15	27-NOV-15 02-Dec-15	100%	100%		Vised Dewatering Proposal Method Statement							
3MPS.1027	ELS - Materials submission	14	23-Dec-15	05-Jan-16	50%	0%	352	ELS - Materials submission							
3MPS.1028	Consultant/CA Review & Approval	7	06-Jan-16	12-Jan-16	0%	0%	352	Consultant/CA Rev	ew & Approval						
3MPS.1029	Waterproofing - Material submission	28	09-Oct-15	05-Nov-15	100%	100%									
3MPS.1030	Consultant/CA Review & Approval	28	06-Nov-15	03-Dec-15	100%	100%		Consultant/CA Review & Approval							
3MPS.1031 3MPS 1032	Concrete design mix for structure & trial mix	14	09-Oct-15	22-Oct-15 01-Dec-15	100%	100%	16	onsultant/CA Review & Approval							
3MPS.1032	Rebar - Material submission & lab test	14	09-Oct-15	22-Oct-15	100%	100%	10								
3MPS.1036	Consultant/CA Review & Approval	40	23-Oct-15	01-Dec-15	100%	100%		Consultant/CA Review & Approval							
3MPS.1037	Formwork design for basement structure	46	23-Oct-15	07-Dec-15	100%	85%	28	Formwork design for basement structure							
3MPS.1038	Consultant/CA Review & Approval PS/MED & Cast is material submission (for bacament size works & fitting=)	14	07-Dec-15	21-Dec-15	100%	20%	28	Consultant/C	Réview & Approval						
3MPS 1039 3MPS 1040	Consultant/CA Review & Approval	20	05-Nov-15	03-Dec-15	100%	85%	14	ni pipe works & illings)							
3MPS.1041	F3+ - Formwork material submission	10	16-Oct-15	25-Oct-15	100%	100%									
3MPS.1042	Consultant/CA Review & Approval	36	26-Oct-15	30-Nov-15	100%	95%	16	onsultant/CA Review & Approval							
3MPS.1043	Material submission for pile cap sheer plate	14	09-Oct-15	22-Oct-15	100%	100%		_							
3MPS.1044	Consultant/CA Review & Approval	37	23-Oct-15	28-Nov-15	100%	100%		ultant/CA Review & Approval							
3MPS.1045 3MPS 1046	Consultant/CA Review & Approval	42	20-Oct-15	30-Nov-15	100%	100%		onsultant/CA Review & Approval							
3MPS.1047	Method statement for B2 structure (M+ & DCS)	57	20-Oct-15	15-Dec-15	100%	91.23%	27	Method statement for B2	structure (M+ & DCS)						
3MPS.1048	Consultant/CA Review & Approval	14	27-Dec-15	10-Jan-16	17.43%	0%	27		Consultant/CA Review & Approval						
3MPS.1049	Method statement for B1 structure (M+ & DCS)	28	23-Dec-15	19-Jan-16	25.45%	0%	387	Metho	d statement for B1 structure (M+ &	DCS)					
3MPS.1050	Consultant/CA Review & Approval	14	19-Jan-16	02-Feb-16	0%	0%	387		Consultant/CA	Review & Approval					
3MPS.1051	Consultant/CA Review & Approval	14	30-Jan-16	13-Feb-16	0%	0%	375			Consultant/CA Revie	w & Approval				
3MPS.1053	Method statement for setting up TC1 &TC3	27	15-Nov-15	12-Dec-15	100%	60%	50	Method statement for setting u	TC1 &TC3						
3MPS.1054	Consultant/CA Review & Approval	14	02-Jan-16	16-Jan-16	0%	0%	50	Cons	ultant/CA Review & Approval						
3MPS.1055	Method statements for Mega Trusses (sequence, falsework etc)	39	23-Dec-15	30-Jan-16	18.06%	0%	381			Method statements for	Mega Trusses (sequence	, falsework etc)			
3MPS.1056 2MPS 1057	Consultant/CA Review & Approval Material submission for Maga Truccas (wolding, steel etc)	8	30-Jan-16	07-Feb-16	0%	0%	381	volding stool ato)		Consu	ultant/CA Review & Approv	<i>v</i> a			
3MPS.1057	Consultant/CA Review & Approval	23	10-Nov-15	03-Dec-15	100%	80%	423	Consultant/CA Review & Approval							
3MPS.1059	Back propping design for Cranage for Mega Trusses	39	23-Dec-15	30-Jan-16	18.06%	0%	381			Back propping design f	; for Cranage for Mega Trus	sses			
3MPS.1060	Consultant/CA Review & Approval	8	30-Jan-16	07-Feb-16	0%	0%	381			Consu	ultant/CA Review & Approv	val			
Facade Submiss	ion and App ro val	15	28-Nov-15	12-Dec-15	0%	57.58%	414								
3MPS.1061 3MPS 1062	Facade Issue of preliminary work programme	1/	28-Nov-15	28-N0V-15	100%	100%	/18	te Issue of preliminary work programme	val						
3MPS.1062	Facade Design proposal sketches for all areas of the facade system(s)	14	29-Nov-15	28-Nov-15	100%	40%	415	te Design proposal sketches for all areas of the faca	de svstem(s)						
3MPS.1064	Consultant/CA Review & Approval	14	29-Nov-15	12-Dec-15	100%	10%	415	Consultant/CA Review & Appro	val						
3MPS.1065	Facade Programme of works including all critical milestone dates for approval and order of materials.	1	28-Nov-15	28-Nov-15	100%	100%		te Programme of works including all critical mileston	e dates for approval and order of m	aterials.					
3MPS.1066	Consultant/CA Review & Approval	14	29-Nov-15	12-Dec-15	100%	10%	415	Consultant/CA Review & Appro	val						
3MPS.1067	Consultant/CA Review & Approval	14	29-Nov-15	12-Dec-15	100%	0%	414	Consultant/CA Review & Appre	val						
Essential submis	sions on Programme, Health and Safety, Security, Quality etc	66	26-Sep-15	30-Nov-15	0%	95.75%	425								
HSEQ & Man	agement Plan		26-Sep-15												
3MPS.1081	Prepare and submission - Health and safety plan	38	26-Sep-15	02-Nov-15	100%	100%									
3MPS.1082	Consultant/CA Review & Approval	28	02-Nov-15	30-Nov-15	100%	100%		onsultant/CA Review & Approval							
3MPS.1083	Prepare and submission - Environmental management plan Consultant/CA Review & Approval	38	26-Sep-15	02-Nov-15	100%	100%		pian							
3MPS.1085	Prepare and submission - Quality management plan	38	26-Sep-15	02-Nov-15	100%	100%									
3MPS.1086	Consultant/CA Review & Approval	28	02-Nov-15	30-Nov-15	100%	90.15%	425	onsultant/CA Review & Approva							
Temporary service	es and site facilities	126	26-Sep-15	29-Jan-16	0%	71.7%	391								
Site Establish	ment & Temporary Facilities	120	02-Oct-15	29-Jan-16	0%	70.36%	391								
3MPS.1003	Hoarding Handover and Modification Works	38	23-Dec-15	29-Jan-16	18.67%	0%	391		Hoarding Handover an	d Modification Works					
3MPS.1004	אין אין אין אין ארא ארא ארא ארא ארא ארא ארא ארא אין איז אין איז אין ארא איז א ארא ארא איז איז איז איז איז איז א ארא ארא ארא ארא איז איז איז איז איז איז איז איז איז אי	90	02-Oct-15	30-Dec-15	98.89%	100%	408		איז	er suppry (Bachy)					
3MPS 1006	Install and carry out dewatering	Q1	26-Sep 15	15-Dec 15	100%	100%		Install and correct out do	terina						
M± 20 Constru	ction Works (Excavation & ELS)	163	02-Nov-15	23-Mav-16	0%	37.94%	270		il in the second s						
M+ AEL North		140	02-Nov-15	23-Apr-16	0%	37 94%	270								
Store 1		140	02-Nov 15	10-Mar 16	0%	/2 7/0/	210								
Stage 1 - Site Fo	mation (Area A)	52	02-Nov-15	06- Jap-16	0%	43.74%	200								
3MSS.1000	Dewatering Commence	0	23-Dec-15	00-041-10	100%	0%	-9	Dewatering Commence, Dewatering Commence							
3MSS.1000.1	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-H//7-6) - Portion A1	12	02-Nov-15	14-Nov-15	100%	100%		for B2 Slab Formation Level (GL C H//7 -6) - Portic	n A1						
3MSS.1000.11	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1	11	03-Nov-15	14-Nov-15	100%	100%		or B2 battered slope (GLA'-J'/4'-6') - Portion A1							
3MSS.1000.21	3MSS.1000.21 Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C -G /2 -7) - Portion A2		04-Nov-15	14-Nov-15	100%	100%		or B2 Slab Formation Level (GL C-G'/2-7') - Portio	n A <mark>2</mark>		1		1		
C.44									Dago 2	of 7	NA 10 Mar	the Polling Drage	mmo		
									Faye 2					A	
	- I HSINI新島										Date	Revis	ion	Checked	Approved
					M+ 3	5 Mont	ns R	olling Programme			02-Dec-15	3MRP Rev B 1(1	st Draft) E	dgar Payos	Leo Harnett
	CHONG										18-Dec-15	Status Update 01	2 E	dgar Payos	Leo Harnett
	CHONG		3MRP Rev B 1st draft Progress Update 014 - 30 Dec 15								23-Dec-15	Status Update 01	3 F	dgar Pavos	Leo Harnett
				5.711 VI		aiui		3.500 Cpaalo of 1 00 D			30-Dec-15	Status Undate 01	4	dgar Pavos	l eo Harnett
											100-060-10			иуаі Гауоб	Loonamell



Clivity	U	Activity Name	Duration	Start	Finish	Complete	Complete	Float	3	4	5
			Daradon	Oldit		Complete	Complete		06 13 20 27	7 03 10 17 24	31 07
	3MSS.1000.31	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL B'-C'/2-4') - Portion A2	9	05-Nov-15	14-Nov-15	100%	100%		or B2 battered slope (GL B'-C'/2-4') - Portion A2		
	3MSS.1000.41	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-F'/2-4) - Portion A3	8	06-Nov-15	14-Nov-15	100%	100%		or B2 Slab Formation Level (GL C -F /2-4) - Portion	A3	
	3MSS.1000.51	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL I'-E/6'-4) - Portion A3	6	09-Nov-15	14-Nov-15	100%	100%		or B2 battered slope (GL I'-E'/6'-4) - Portion A3		
	3MSS.1002	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GLC'-H/7-6') - Portion A1	4	05-Dec-15	09-Dec-15	100%	100%		Excavate +1.8mPD to _2.30mPD to	r B2 Slab Formation Level (GLC'-H'/7'-6') - Portion A1	
	3MSS.1003	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1	5	05-Dec-15	11-Dec-15	100%	100%		Excavate +1.8mPD to 2.30mP	D for B2 battered slope (GL A'-J'/4'-6') - Portion A1	
	3MSS.1004	Excavate +1.8mPD to 2.30mPD for B2 Slab Formation Level (GLC - G'/2-7') - Portion A2	5	08-Dec-15	14-Dec-15	100%	80%	22	Excavate +1.8mPD to 2.3	30mPD for B2 Slab Formation Level (GLC'-G'/2-7') - Portion	A2
	3MSS.1005	Excavate +1.8mPD to 2.30mPD for B2 battered slope (GL B-C/2-4) - Portion A2	5	10-Dec-15	16-Dec-15	100%	80%	22	Excavate +1.8mPD to	2.30mPD for B2 battered slope (GL B'-C/2-4') - Portion A2	
	3MSS.1006	Excavate +1.8mPD to 2.30mPD for B2 Slab Formation Level (GLC'F/2-4) - Portion A3	5	29-Dec-15	05-Jan-16	14.29%	40%	22	Excavate +1.8mPD	to 2.30mPD for B2 Slab Formation Level (GL C'-F'/2-4) -	Portion A3
	3MSS 1007	Evaluate +1 8mPD to 2.30mPD for 22 battered slope (CL LEV6.4) - Portion A3	5	30-Dec-15	06- Jan-16	0%	40%	33		nPD to 2.30mPD for B2 battered slope (GL $I_{-}F/6-4$) - Port	ion A3
	Stage 1 - Bile Ca		20	11 Doc 15	29 Jan 16	0%	9.65%	21			1011710
	Stage I - File Ca	p construction (AreaA)	10	11-Dec-15	20-Jan 10	0%	20.70%	10			
	_Portion A1		18	TI-Dec-15	06-Jan-16	0%	20.79%	12			
	3MSS.1010	Local Excavation for Pile caps (-3.3mPD)- (GLC'-H'/7'-6') - Portion A1 -CPC40(7),41(7),42-2(3),42(7),43(7),40(7)	0			0%	87.5%	15	Local Excavation for Pi	ile caps (-3.3mPD)- (GLC'-H'/7'-6') - Portion A1 -CPC40(7)	41(7),42-2(3),42(7),43(7),4
	3MSS.1011	Excavation works for Pile - CPC 40 (07)	2	11-Dec-15	14-Dec-15	100%	100%		Excavation works for Pile -	CPC 40 (07)	
	3MSS.1012	Excavation works for Pile -CPC 44 (07)	2	11-Dec-15	14-Dec-15	100%	100%		Excavation works for Pile -	CPC 44 (07)	
	3MSS.1013	Excavation works for Pile -CPC 41 (07)	2	11-Dec-15	14-Dec-15	100%	100%		Excavation works for Pile -	CPC 41 (07)	
	3MSS.1014	Excavation works for Pile - CPC 43 (07)	2	14-Dec-15	16-Dec-15	100%	100%		Excavation works for P	Pile - CPC 43 (07)	
	3MSS.1015	Excavation works for Pile - CPC 42 (07)	2	14-Dec-15	16-Dec-15	100%	100%		Excavation works for P	Pile - CPC 42 (07)	
	3MSS.1016	Excavation works for Pile - CPC 42-2 (03)	1	15-Dec-15	16-Dec-15	100%	50%	15	Excavation works for P	Pile - CPC 42-2 (03)	
	3MSS 1017	Rebar Installation for Pile can- Portion A1	0			0%	0%	12	Rebar Installation to	r Pile cap- Portion A1	
	3MSS 1018	Rebar Installation - CPC 40 (07)	1	02-Jan-16	02-Jan-16	0%	0%	12	Rebar Installation - CPC	2 40 (07)	
	3MSS 1010		1	02- Jan-16	02-Jan-16	0%	0%	12	Rebar Installation - CPC		
	3MSS 1020		1	02 Jan-16	02 Jan-16	0%	0%	12	Rebar Installation - CPC	2 41 (07)	
	3M66 1020		1	02-Jan 16	02-Jan 16	0%	0%	12			
	310133.1021	Rebail Installation - CPC 43 (07)	1	02-Jan-16	02-Jan-16	0%	0%	12			
	31455.1022	Redar Installation - CPC 42 (07)	1	02-Jan-16	02-Jan-16	0%	0%	12	Repar Installation - C	PC 42 (07)	
	31/155.1023	Rebar Installation - CPU 42-2 (03)	1	04-Jan-16	05-Jan-16	0%	0%	12			
	3MSS.1024	Pile cap side formworks - Portion A1	0			0%	0%	12	Pile cap side fo	rmworks - Portion A1	
	3MSS.1025	Pile cap side formwork - CPC 40 (07)	0			0%	100%		Pile cap side tormwo	rk - CPC 40 (07)	
	3MSS.1026	Pile cap side formwork - CPC 44 (07)	0			0%	50%	13	Pile cap side formwo	rk - CPC 44 (07)	
	3MSS.1027	Pile cap side formwork - CPC 41 (07)	0			0%	100%		Pile cap side former	rk - CPC 41 (07)	
	3MSS.1028	Pile cap side formwork - CPC 43 (07)	0			0%	0%	13	Pile cap side fo	rmwork - CPC 43 (07)	
	3MSS.1029	Pile cap side formwork - CPC 42 (07)	0			0%	0%	12	Pile cap side fo	rmwork - CPC 42 (07)	
	3MSS.1030	Pile cap side formwork - CPC 42-2 (03)	0			0%	0%	12	Pile cap side fo	rmwork - CPC 42-2 (03)	
	3MSS.1031	Portion A1 concrete pouring for Pile cap	0			0%	0%	12	Portion A1	concrete pouring for Pile cap	
	3MSS.1032	concrete pouring - CPC 40 (07)	1	04-Jan-16	04-Jan-16	0%	0%	15	concrete pouring -	CPC 40 (07)	
	3MSS 1033		1	04- Jan-16	04- Jan-16	0%	0%	14	concrete pouring	CPC 44 (07)	
	3MSS 1034		1	04 Jan-16	04 Jan-16	0%	0%	14	concrete pouring	CPC 41 (07)	
	21400.1034		1	04-Jan-10	04-Jan 16	0%	0%	19			
	310133.1035	Concrete pouring - CPC 43 (07)	1	04-Jan-16	04-Jan-16	0%	0%	10		Suting - CPC 43 (07)	
	310133.1030			04-Jan-16	04-Jan-16	0%	0%	12		Dulling - CPC 42 (07)	
	3MSS.1037	concrete pouring - CPC 42-2 (03)	1	05-Jan-16	06-Jan-16	0%	0%	12		Suring - CPC 42-2 (03)	
	Portion A2			28-Dec-15	13-Jan-16						
	3MSS.1038	Local Excavation for Pile caps (-3.3mPD) - (GL C'-G'/2-7') - Portion A2- CPC49(2),50(2), PC 05(3),06(4),07(4),08(2	0			0%	0%	22	Local Exca	vation for Pile caps (-3.3mPD) - (GL C'-G'/2-7') - Portion A2-	CPC49(2),50(2), PC 05(3),
	3MSS.1039	Excavation works for Pile - CPC 49 (02)	1	28-Dec-15	29-Dec-15	100%	0%	22	Excavation wor	ks for Pile - CPC 49 (02)	
	3MSS.1040	Excavation works for Pile - CPC 50 (02)	1	29-Dec-15	30-Dec-15	50%	0%	22	Excavation wor	ks for Pile - CPC 50 (02)	
	3MSS.1041	Excavation works for Pile - PC 05 (03)	1	30-Dec-15	31-Dec-15	0%	0%	22	Excavation wor	ks for Pile - PC 05 (03)	
	3MSS.1042	Excavation works for Pile - PC 08 (02)	1	04-Jan-16	05-Jan-16	0%	0%	22	Excavation	works for Pile - PC 08 (02)	
	3MSS.1043	Excavation works for Pile - PC 06 (04)	1	31-Dec-15	02-Jan-16	0%	0%	22	Excavation	works for Pile - PC 06 (04)	
	3MSS.1044	Excavation works for Pile - PC 07 (04)	1	02-Jan-16	04-Jan-16	0%	0%	22	Excavation	works for Pile - PC 07 (04)	
	3MSS.1045	Rebar Installation for Pile cap- Portion A2	0			0%	0%	22	Rebar Ins	stallation for Pile cap- Portion A2	
	3MSS.1046	Rebar Installation - CPC 49 (02)	1	05-Jan-16	06-Jan-16	0%	0%	22	Rebar Insta	allation - CPC 49 (02)	
	3MSS.1047	Rebar Installation - CPC 50 (02)	1	06-Jan-16	07-Jan-16	0%	0%	22	Rebar Insta	allation - CPC 50 (02)	
	3MSS 1048	Rebar Installation - PC 05 (03)	1	07- Jan-16	08- Jan-16	0%	0%	22	Rebar Insta	allation - PC 05 (03)	
	3MSS 1049	Rebar Installations - PC 08 (02)	1	11- Jan-16	12- Jan-16	0%	0%	22	Rebar Inc	stallations - PC 08 (02)	
	2MSS 1050		1	09 Jan 16	00 Jan 16	0%	0%	22	- Robar Inc		
	314155.1050		1	00-Jan 16	11 Jan 16	0%	0%	22		atellation PC 07 (04)	
	31400.4050	Nedal Installation - PC 07 (04)	1	09-341-10	TI-Jan-To	0 %	0%	22		istanation - FC 07 (04)	
	31455.1052	Pile cap side formworks - Portion A2	0			0%	0%	22		ie cap side formworks - Portion A2	
	3MSS.1053	Pile cap side formworks - CPC 49 (02)	0			0%	0%	22		ide formworks - CPC 49 (02)	
	3MSS.1054	Pile cap side formworks - CPC 50 (02)	0			0%	0%	22		idę formworks - CPC 50 (02)	
	3MSS.1055	Pile cap side formworks - PC 05 (03)	0			0%	0%	22	_ Pile cap s	ide formworks - PC 05 (03)	
	3MSS.1056	Pile cap side formworks - PC 08 (02)	0			0%	0%	22	-l	le cap side formworks - PC 08 (02)	
	3MSS.1057	Pile cap side formworks - PC 06 (04)	0			0%	0%	22	_ Pi	ile cap side formworks - PC 06 (04)	
	3MSS.1058	Pile cap side formworks - PC 07 (04)	0			0%	0%	22	Þi	ile cap side formworks - PC 07 (04)	
	3MSS.1059	Portion A2 concrete pouring	0			0%	0%	22		Portion A2 concrete pouring	
	3MSS.1060	Concrete Pouring - CPC 49 (02)	1	06-Jan-16	07-Jan-16	0%	0%	22		Concrete Pouring - CPC 49 (02)	
	3MSS.1061	Concrete Pouring - CPC 50 (02)	1	07-Jan-16	08-Jan-16	0%	0%	22		Concrete Pouring - CPC 50 (02)	
	3MSS.1062	Concrete Pouring - PC 05 (03)	1	08-Jan-16	09-Jan-16	0%	0%	22		Concrete Pouring - PC 05 (03)	
	3MSS.1063	Concrete Pouring - PC 08 (02)	1	12-Jan-16	13-Jan-16	0%	0%	22	1 6	Concrete Pouring - PC 08 (02)	
	3MSS.1064	Concrete Pouring - PC 06 (04)	1	09-Jan-16	11-Jan-16	0%	0%	22	[<mark>[</mark>]	Concrete Pouring - PC 06 (04)	
	3MSS.1065	Concrete Pouring - PC 07 (04)	1	11-Jan-16	12-Jan-16	0%	0%	22		Concrete Pouring - PC 07 (04)	
	Portion A2		20	05-Jan-16	28-Jan-16	0%	0%	29			
	2000 4000	Local Evenuation for Bild cons. (2 2mBD) (CL CL EV.2.4) Destina A2, BC47(4) 40(4) 40(4) 40(4) 00(7) 04(6) 00(7)	0			00/	00/	24			DC17(1) 19(1) 10(0) 00(7)
	311133.1066	Local Excavation for File caps (-3.50 FD) - (GL U-F/2-4) - Porton A3 -PU1/(1),18(1),19(2),20(7),21(2),33(2)	U 4	07 lon 40	09 100 10	0%	0%	34		avalion for File caps (-3.3MPD) - (GL C-F/2-4) - Portion A3	-FG17(1),18(1),19(2),20(7)
	3NSS 1007	Excertation works for Dia DC 22 (02)	1	07-Jan-16	12 Jan 40	0%	0%	29		$\frac{1}{10000000000000000000000000000000000$	
	31VI35.1068	Excavation works for Pile - PC 33 (U2)	1	07 Jan-16	12-Jan-16	0%	0%	29		ni works für File - FC 33 (UZ)	
	310155.1069	Excavation works for Pile - PC 20 (07)	1	07-Jan-16	uo-Jan-16	0%	0%	29		IT WORKS FOR PILE - PC 20 (07)	
	3MSS.1070	Excavation works for Pile - PC 19 (02)	1	06-Jan-16	07-Jan-16	0%	0%	34	_ Excavatio	n works for Pile - PC 19 (02)	
	3MSS.1071	Excavation works for Pile - PC 18 (01)	1	05-Jan-16	06-Jan-16	0%	0%	34	Excavato	n works for Pile - PC 18 (01)	
	3MSS.1072	Excavation works for Pile - PC 17 (01)	1	19-Jan-16	20-Jan-16	0%	0%	34	Excavato	n works for Pile - PC 17 (01)	
	3MSS.1073	Rebar Installation - Portion A3	0			0%	0%	30		Rebar Installation - Portion A3	
	3MSS.1074	Rebar /Earthing Installation - PC 21 (02)	1	14-Jan-16	15-Jan-16	0%	0%	29	_	ebar /Earthing Installation - PC 21 (02)	
	3MSS.1076	Rebar Installation - PC 33 (02)	1	18-Jan-16	19-Jan-16	0%	0%	29] 🗖 🗖 🗖	ebar Installation - PC 33 (02)	
	3MSS.1077	Rebar Installation - PC 20 (07)	5	14-Jan-16	20-Jan-16	0%	0%	29		Rebar Installation - PC 20 (07)	
	3MSS.1078	Rebar Installation - PC 19 (02)	1	13-Jan-16	14-Jan-16	0%	0%	30		Rebar Installation - PC 19 (02)	
	3MSS.1079	Rebar /Earthing Installation - PC 18 (01)	1	12-Jan-16	13-Jan-16	0%	0%	30		Rebar /Earthing Installation - PC 18 (01)	
	3MSS.1081	Rebar Installation - PC 17 (01)	1	26-Jan-16	27-Jan-16	0%	0%	30	1 J	Rebar Installation - PC 17 (01)	
	3MSS.1082	Pile cap side formworks - Portion A3	0			0%	0%	29	1 4	Pile cap side formworks - Portion A3	
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M+ 3 Months Rolling Programme

3MRP Rev B 1st draft Progress Update 014 - 30 Dec 15

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	Status Update 01	2	Edgar	Payos	Leo Harne	ett
	Status Update 01	3	Edgar	Payos	Leo Harne	ett
	Status Update 01	4	Edgar	Payos	Leo Harne	ett

Date

02-Dec-15 18-Dec-15

23-Dec-15 30-Dec-15

3MSS.1083	Advity Name	Planned	Planned	Finish	Planned %	Actual %	Float	December	January	
3MSS.1083		Duration	Start	FILISI	Complete	Complete	Fillat		27 03 10 17 24	31 07
	Pile cap side formworks - PC 21 (02)	0			0%	0%	33	_	Pile cap side formworks - PC 21 (02)	
3MSS.1084	Pile cap side formworks -PC 33 (02)	0			0%	0%	33	_	Pile cap side formworks -PC 33 (02)	
3MSS.1085	Pile cap side formworks -PC 20 (07)	0			0%	0%	29	_	Pile cap side formworks -PC 20 (07)	
3MSS.1086	Pile cap side formworks -PC 19 (02)	0			0%	0%	29	_	Pile cap side formworks -PC 19 (02)	
3MSS.1087	Pile cap side formworks -PC 18 (01)	0			0%	0%	29		Pile cap side formworks -PC 18 (01)	
3MSS.1088	Pile cap side formworks -PC 17 (01)	0			0%	0%	29		Pile cap side formworks -PC 17 (01)	
3MSS.1089	Portion A3 concrete pouring	0			0%	0%	29		Portion A3 concrete pouring	
3MSS.1090	Concrete Pouring - PC 21 (02)	1	15-Jan-16	16-Jan-16	0%	0%	29		Concrete Pouring - PC 21 (02)	
3MSS.1091	Concrete Pouring - PC 33 (02)	1	19-Jan-16	20-Jan-16	0%	0%	29		Concrete Pouring - PC 33 (02)	
3MSS.1092	Concrete Pouring - PC 20 (07)	1	20-Jan-16	21-Jan-16	0%	0%	29		Concrete Pouring - PC 20 (07)	
3MSS.1093	Concrete Pouring - PC 19 (02)	1	14-Jan-16	15-Jan-16	0%	0%	29		Concrete Pouring - PC 19 (02)	
3MSS.1094	Concrete Pouring - PC 18 (01)	1	13-Jan-16	14-Jan-16	0%	0%	29		Concrete Pouring - PC 18 (01)	
3MSS.1095	Concrete Pouring - PC 17 (01)	1	27-Jan-16	28-Jan-16	0%	0%	29		Concrete Pouring - PC 17 (01)	
Manhole(Ty	pe 1,25,19,38,2,14) - Portion A	20	05-Jan-16	27-Jan-16	0%	0%	31			
3MSS 1100	Excavation (Type 1) - GL 6'7'-D'E'	1	06- Jan-16	06- Jan-16	0%	0%	19	Excavation (1	(me 1) - GL 6'7'-D'E'	
3MSS 1101	Rehar Installation (Type 1) - GL 6/7-D'E'	1	07- Jan-16	07- Jan-16	0%	0%	19	Rehar In	stallation (Type 1) - GL 6'7'-D'F'	
3MSS 1102	Formworks (Type 1) - GL 6/7'-D'E'	1	08- Jan-16	08- Jan-16	0%	0%	19	Formw	arks'(Type 1) - GL 6'7'-D'E'	
3MSS 1103	Concrete Pouring (Type 1) - GL 67'-D'F'	1	09- Jan-16	09- Jan-16	0%	0%	19		Concrete Pouring (Type 1) - GL 6'7'-D'F'	
3MSS 1104	Everyation (Type 25) - GL 6'7'-D'E'	1	05-Jan-16	05-lan-16	0%	0%	10	- Excavatio	(Type 25) - GL 6'7'-D'E'	
2MSS.1104	Paber Installation (Type 25) - GE 6/7' D'E'	1	06 Jan 16	05-Jan-16	0%	0%	19	- Excavalic	In (Type 23) - GL 67 - D E	
2MSS 1106		1	07 Jan 16	07 Jon 16	0%	0%	10		Formworks (Type 25) - GL 6'7' D'E'	
2MSS.1100	Concrete Pouring (Type 25) - GE 67' D'E'	1	07-Jan-16	07-Jan-16	0%	0%	19		Concrete Pouring (Type 25) - GL 6'7' D'E'	
3MSS.1107	Concilete Fouring (Type 23) - GE 67 - D E	1	12 Jan 16	12 Jan 16	0%	0%	19		Everytation (Type 10) CL 7 1/D /E	
31/133.1100	Excavation (Type 19) - GL 7 - 1/D- E Rehar Installation (Type 19) - GL 7 - 1/D - E	1	12-Jan 16	13-Jan-16	0%	0%	25	-	Behavior (Type 19) - GL 7 - 1/D-E	
31033.1109	Rebail Installation (Type 19) - GL 7 - I/D- E	1	13-Jan-16	14-Jan-16	0%	0%	25	-	Economicaliation (Type 19) - GE 7 - 1/D- E	
31/155.1110	Formworks (Type 19) - GL 7 - 1/D- E	1	14-Jan-16	15-Jan-16	0%	0%	25	_	Formworks (Type 19) - GL 7 - 1/D - E	
31/155.1111		0	15-Jan-16	15-Jan-16	0%	0%	26	_	Concrete Pouring (Type 19) - GL 7 - 1/D-E	
3MSS.1112	Excavation (Type 38) - GL 1/C-D	1	13-Jan-16	14-Jan-16	0%	0%	25		Excavation (Type 38) - GL 1/C-D	
3MSS.1113		. 1	14-Jan-16	15-Jan-16	0%	0%	25	-	Repar Installation (Type 38) - GL 1/C-'D'	
3MSS.1114	Formworks (Type 38) - GL 1/C-D	1	15-Jan-16	16-Jan-16	0%	0%	25	_	Formworks (Type 38) - GL 1/C-'D'	
3MSS.1115	Concrete Pouring (Type 38) - GL 1/C-'D'	0	16-Jan-16	16-Jan-16	0%	0%	25	_	Concrete Pouring (Type 38) - GL 1/C-'D'	
3MSS.1116	Excavation (Type 2) - GL 2/D-'E'	1	21-Jan-16	22-Jan-16	0%	0%	31	_	Excavation (Type 2) - GL 2/D-'E'	
3MSS.1117	Rebar Installation (Type 2) - GL 2/D-'E'	1	22-Jan-16	23-Jan-16	0%	0%	31		Rebar Installation (Type 2) - GL 2/D-'E'	
3MSS.1118	Formworks (Type 2) - GL 2/D-'E'	1	23-Jan-16	25-Jan-16	0%	0%	31	_	Formworks (Type 2) - GL 2/D-'E'	
3MSS.1119	Concrete Pouring (Type 2) - GL 2/D-'E'	1	25-Jan-16	26-Jan-16	0%	0%	31		Concrete Pouring (Type 2) - GL 2/D	'E'
3MSS.1120	Excavation (Type 14) - GL 2-3/E'-F'	1	22-Jan-16	23-Jan-16	0%	0%	31		Excavation (Type 14) - GL 2-3/E'-F'	
3MSS.1121	Rebar Installation (Type 14) - GL 2-3/E'-F'	1	23-Jan-16	25-Jan-16	0%	0%	31		Rebar Installation (Type 14) - GL 2-3/E-F	F'
3MSS.1122	Formworks (Type 14) - GL 2-3/E'-F'	1	25-Jan-16	26-Jan-16	0%	0%	31		Formworks (Type 14) - GL 2-3/E'-F	
3MSS.1123	Concrete Pouring (Type 14) - GL 2-3/E'-F'	1	26-Jan-16	27-Jan-16	0%	0%	31		Concrete Pouring (Type 14) - GL 2	-3/E'-F'
Stage 1 - Site F	formation (Area B)	45	02-Nov-15	24-Dec-15	0%	76.72%	302			
3MSS.1124	Dewatering Commence	0	23-Dec-15		100%	0%	25	Dewatering Commence, Dewatering Commence		
3MSS.1125	Initial Site formation	12	02-Nov-15	14-Nov-15	100%	100%				
3MSS.1125.1	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)	11	03-Nov-15	14-Nov-15	100%	100%		or B2 Slab Formation Level (GLA-K'/9-3)		
3MSS.1125.11	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')	10	04-Nov-15	14-Nov-15	100%	100%		or B2 battered slope (GL A/2-10')		
3MSS.1125.21	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)	9	05-Nov-15	14-Nov-15	100%	100%		or B2 Slab Formation Level (GL K'-A'/8-3)		
3MSS.1125.31	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')	8	06-Nov-15	14-Nov-15	100%	100%		or B2 battered slope (GLA-B'/3-7')		
3MSS.1125.41	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)	7	07-Nov-15	14-Nov-15	100%	100%		for B2 Slab Formation Level (GL A'-C/2-6)		
3MSS.1125.51	Excavate +5.0Mpd to +1.8mPD battered slope (GLA-E/10-4)	6	09-Nov-15	14-Nov-15	100%	100%		battered slope (GLA-E/10-4)	4	
3MSS.1126	Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)	5	08-Dec-15	14-Dec-15	100%	90%	25	Excavate +1.8mPD to -2.3	mPD for B2 Slab Formation Level (GLA-K'/9-3)	
3MSS.1127	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10')	5	09-Dec-15	15-Dec-15	100%	89.99%	25	Excavate +1.8mPD to -2	3mPD for B2 battered slope (GL A/2-10')	
	Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)	5	11-Dec-15	17-Dec-15	100%	70.01%	38	Excavate +1.8mPD t	o -2 3mPD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1128					4000/	70.01%	38	Excavate +1.8mF	D to -2.3mPD for B2 battered slope (GLA-B'/3-7')	
3MSS.1128 3MSS.1129	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7')	5	14-Dec-15	19-Dec-15	100%	10.0170	38	Excavate		
3MSS.1128 3MSS.1129 3MSS.1130	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6)	5 5	14-Dec-15 16-Dec-15	19-Dec-15 23-Dec-15	100%	34.99%	50		+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2+£	5)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4)	5 5 5	14-Dec-15 16-Dec-15 17-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15	100% 100%	34.99% 29.99%	55	Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2+f +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4)	5)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 Stage 1 - Pile C	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B)	5 5 5 43	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16	100% 100% 100%	34.99% 29.99% 0%	55 81	Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2;f te +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4)	5)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B)	5 5 5 43 33	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16	100% 100% 100% 0%	34.99% 29.99% 0%	55 81 25	Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2,6 te +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4)	5)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2) 50(2) 59(2) - PC72 - 33%	5 5 5 43 33	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16	100% 100% 100% 0% 0%	34.99% 29.99% 0% 0%	55 81 25 37	Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A·C/2.4 te +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) ion for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 3D	5) 9(2),50(2),59(2) · PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1132	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1)	5 5 43 33 0 2	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15	100% 100% 100% 0% 0% 0% 100%	34.99% 29.99% 0% 0% 0%	55 81 25 37 25	Excava Local Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA'-C/2.4 = +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ton for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 3P Pile - PC 72 - 33% (S1)	⁵⁾ 9(2),50(2),59(2) ; PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1133	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02)	5 5 43 33 0 2 3	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16	100% 100% 0% 0% 0% 100% 0%	34.99% 29.99% 0% 0% 0% 0%	30 55 81 25 37 25 25	Excava	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2.4 = +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) tion for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) piks for Pile - PC 39 (02)	3) 9(2),50(2),59(2) ; PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1134	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) (ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02)	5 5 43 33 0 2 3 3 3	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15	100% 100% 0% 0% 0% 100% 0% 58.33%	34.99% 29.99% 0% 0% 0% 0% 0%	30 55 81 25 37 25 25 25 37	Excava Local Excava Excavation works for Excavation works	 +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ton for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 3P Pile - PC 72 - 33% (S1) prks for Pile - PC 39 (02) 	3) 9(2),50(2),59(2) ; PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1135 3MSS.1135	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) tap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GL A-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02)	5 5 43 33 0 2 3 3 3 3 3	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16	100% 100% 0% 0% 0% 100% 0% 58.33% 0%	34.99% 29.99% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	30 55 81 25 37 25 25 37 37	Excava Excavation works for Excavation works for Excavation works for Excavation works for	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2+6 te +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) fon for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) prks for Pile - PC 39 (02) prks for Pile - PC 59 (02)	3) ((2),50(2),59(2) ; PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pie C Portion B1 3MSS.1132 3MSS.1134 3MSS.1134 3MSS.1136 3MSS.1136	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) tap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Excavation works for Pile - PC 50 (02) Excavation works for Pile - PC 50 (02)	5 5 43 33 0 2 3 3 3 3 3 0 0	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16	100% 100% 0% 0% 0% 100% 0% 58.33% 0%	0.0173 34.99% 29.99% 0%	30 55 81 25 37 25 25 37 37 37 25	Excavation w Excavation w Excavation w	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) ton for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) Pile - PC 50 (02) Rehar Installation	3) ((2),50(2),59(2) ; PC72 - 3
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1132 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1137	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - Portion B1 Rebar Installation - PC 72 - 33% (s1)	5 5 43 33 0 2 3 3 3 3 3 0 25	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16	100% 100% 0% 0% 100% 0% 58.33% 0% 0%	34.99% 29.99% 0%	30 55 81 25 37 25 25 37 37 37 25 25 25	Excava Local Excava Excavation works for Excavation w Excavation w Excavation w	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2+6 te +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) tion for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) orks for Pile - PC 50 (02) Rebar Installati	5) ((2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1130 3MSS.1131 3MSS.1132 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1138 3MSS.1138	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) tap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - Portion B1 Rebar Installation - PC 72 - 33% (S1) Rebar Installation - PC 72 - 33% (S1)	5 5 5 43 0 2 3 3 3 3 3 3 0 25 1	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 20-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 03-Feb-16 21. Jan-16	100% 100% 0% 0% 0% 0% 0% 58.33% 0% 0% 0% 0%	34.99% 29.99% 0% 0% 0% 0% 0% 0% 0% 0%	30 55 81 25 25 37 37 37 25 25 25 25 44	Excava Local Excava Excavation works for Excavation w Excavation w Excavation w	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2.4 b +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ton for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 3P Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 50 (02) rks for Pile - PC 50 (02) Rebar Installetit Rebar Installetit rthing Installation - PC 39 (02)	3) ((2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1149	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - PC 72 - 33% (s1) Rebar Installation - PC 72 - 33% (s1) Rebar /Earthing Installation - PC 39 (02)	5 5 43 33 0 2 3 3 3 3 0 0 25 1 1	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 20-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 03-Feb-16 21-Jan-16 08-Jan-16	100% 100% 0% 0% 0% 100% 0% 58.33% 0% 0% 0% 0%	34.99% 29.99% 0% 0% 0% 0% 0% 0% 0% 0% 0%	35 55 81 25 37 25 25 37 37 25 25 25 44 44	Excava Excavation works for Excavation wor	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) tion for Pile caps (-3.3mPD)- (GL A-K/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 59 (02) orks for Pile - PC 59 (02) rks for Pile - PC 50 (02) Rebar Installati rthing Installation - PC 39 (02) rthing Installation - PC 39 (02)	3) ((2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1140 3MSS.1140	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) (ap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - PC 72 - 33% (s1) Rebar Installation - PC 72 - 33% (s1) Rebar Installation - PC 72 - 33% (s1) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02)	5 5 5 43 33 0 2 2 3 3 3 3 0 25 1 1 1	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 07-Jan-16 07-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 03-Feb-16 21-Jan-16 08-Jan-16	100% 100% 0% 0% 0% 100% 0% 58.33% 0% 0% 0% 0% 0%	34.99% 29.99% 0%	35 55 81 25 37 25 25 37 37 25 25 25 44 44 44	Excava Local Excava Excavation works for Excavation w Excavation w Excavation w Rebar /E Rebar /E	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2.4 to n for Pile caps (-3.3mPD) - (GL A-K/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) orks for Pile - PC 50 (02) Rebar Installation arthing Installation - PC 59 (02) rthing Installation - PC 59 (02) For Pile - PC 59 (02	5) ((2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1)
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pie C Portion B1 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1138 3MSS.1138 3MSS.1139 3MSS.1140 3MSS.1141	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B/3-7) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) tap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - PC 72 - 33% (s1) Rebar Installation - PC 73 (02) Rebar /Earthing Installation - PC 59 (02)	5 5 5 43 0 2 2 3 3 3 3 0 25 1 1 1 0 0	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 07-Jan-16 13-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 03-Feb-16 21-Jan-16 08-Jan-16	100% 100% 0% 0% 0% 58.33% 0% 0% 0% 0% 0% 0% 0%	34.99% 29.99% 0%	35 55 81 25 25 25 37 37 25 25 25 25 44 44 44 44	Excavation works for Excavation works for Excavation works for Excavation works for Excavation works for Excavation works for Rebar /E Rebar /E Rebar /E	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) ton for Pile caps (-3.3mPD)- (GL A-K/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) rks for Pile - PC 50 (02) Rebar Installațion rthing Installation - PC 39 (02) arthing Installation - PC 59 (02) Earthing Installation - PC 50 (02) Earthing Installation - PC 50 (02)	5) (2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1) side formworks - Portion P
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1130 3MSS.1131 3MSS.1132 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1140 3MSS.1141	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) sap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 50 (02) Excavation works for Pile - PC 50 (02) Rebar Installation - Portion B1 Rebar Installation - PC 72 - 33% (s1) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 50 (02) Pile cap side formworks - PC 72 - 33% (s1)	5 5 5 43 0 2 3 3 3 3 3 3 0 25 1 1 1 1 0 0 0	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 05-Jan-16 13-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 03-Feb-16 21-Jan-16 08-Jan-16	100% 100% 0% 0% 0% 0% 0% 58.33% 0% 0% 0% 0% 0% 0% 0%	34.99% 29.99% 0%	35 55 81 25 25 25 37 37 25 25 25 44 44 44 44 25 25	Excava Local Excava Excavation works for Excavation w Excavation w Excavation w Excavation w Excavation w Excavation w	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) ton for Pile caps (-3.3mPD)- (GL A-K'/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) rks for Pile - PC 50 (02) Rebar Installation rkstallation - PC 39 (02) arthing Installation - PC 59 (02) Earthing Installation - PC 50 (02) Pile caps	3) (2),50(2),59(2); PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1) side formworks - Portion B side formworks - Portion B
3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1139 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1142 3MSS.1142	Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 Stab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) tap Construction (Area B) Local Excavation for Pile caps (-3.3mPD)- (GL A-K/9-3) - Portion B1 - PC 39(2),50(2),59(2) ; PC72 - 33% Excavation works for Pile - PC 72 - 33% (S1) Excavation works for Pile - PC 72 - 020 (O2) Excavation works for Pile - PC 59 (O2) Excavation works for Pile - PC 59 (O2) Excavation works for Pile - PC 59 (O2) Rebar Installation - PC 72 - 33% (s1) Rebar Installation - PC 72 - 020 (O2) Rebar /Earthing Installation - PC 59 (O2) Rebar /Earthing Installation - PC 59 (O2) Rebar /Earthing Installation - PC 59 (O2) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1)	5 5 5 43 33 0 2 2 3 3 3 3 0 2 5 1 1 1 1 0 0 0 0 0 0 0	14-Dec-15 16-Dec-15 17-Dec-15 24-Dec-15 24-Dec-15 11-Jan-16 28-Dec-15 04-Jan-16 05-Jan-16 07-Jan-16 13-Jan-16	19-Dec-15 23-Dec-15 24-Dec-15 19-Feb-16 04-Feb-16 29-Dec-15 14-Jan-16 31-Dec-15 07-Jan-16 08-Jan-16 14-Jan-16	100% 100% 100% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	34.99% 29.99% 0%	35 55 81 25 25 25 37 37 25 25 25 44 44 44 44 25 25 25 45	Excava Excavation works for Excavation works for Excavation w Excavation w Excavation w Excavation w Excavation w	+1.8mPD to -2.3mPD for B2 Slab Formation Level (GLA-C/2+6 +1.8mPD to -2.3mPD for B2 battered slope (GLA-E/10-4) tion for Pile caps (-3.3mPD)- (GLA-K'/9-3) - Portion B1 - PC 39 Pile - PC 72 - 33% (S1) orks for Pile - PC 39 (02) orks for Pile - PC 59 (02) orks for Pile - PC 59 (02) Rebar Installation Rebar Installation Rebar Installation Rebar Installation Rebar Installation Pile caps Side formworks - PC 39 (02)	3) (2),50(2),59(2) ; PC72 - 3 ion - Portion B1 ion - PC 72 - 33% (s1) side formworks - Portion B
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M+ 3 Months Rolling Programme

3MRP Rev B 1st draft Progress Update 014 - 30 Dec 15

02-Dec-15 18-Dec-15 23-Dec-15 30-Dec-15

Date

Februa	ary						March				April
5	14	21		28	06		6 13	2	0	27	03
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Activity ID	Activity Name	Planned	Planned	Planned	Planned %	Actual %	Total	December January February March April
		Duration	Start	Finish	Complete	Complete	Float	
3MSS 1160	Pile can side formworks - Portion R2	0			0%	0%	43	0 00 13 20 21 03 10 17 24 31 07 14 21 26 00 13 20 27 03
3MSS 1161	Pile cap side formworks - PC 60 (02)	0			0%	0%	51	The can side formworks = C (50 (02)
3MSS.1162	Pile cap side formworks - PC 40 (07)	0			0%	0%	43	Pie cap side formworks - PC 40 (07)
3MSS.1163	Pile cap side formworks - PC 51 (02)	0			0%	0%	43	Pie cap side formworks - PC 51 (02)
3MSS.1164	Portion B2 concrete pouring	0			0%	0%	43	Portion B2 concrete pouring
3MSS.1165	concrete pouring - PC 60 (02)	1	08-Jan-16	09-Jan-16	0%	0%	50	Concrete pouring - PC 60 (02)
3MSS.1166	concrete pouring - PC 40 (07)	1	25-Jan-16	26-Jan-16	0%	0%	43	Concrete pouring - PC 40 (07)
3MSS.1167	concrete pouring - PC 51 (02)	1	15-Jan-16	16-Jan-16	0%	0%	43	Concrete pouring - PC 51 (02)
Portion B3		38	02-Jan-16	19-Feb-16	0%	0%	81	
3MSS 1168	Local Exclp for Pile (GLA'-C/2-6) - Portion B3 - PC 41(2) 52(2) 61(2) 61(1) 16(6) 30(s5) 42(2) 62(2) 31(1) 32(1) 44	0			0%	0%	52	Local Excl. for Pile (GLA-C/2-6) - Portion B3 - PC 41/2) 52(2) 61(2) 61(1) 16(6) 30(55) 42(2) 62(2) 31(1) 32(1) 44(2)
3MSS 1169	Excavation works for Pile - PC 62 (02)	1	02-Jan-16	04lan-16	0%	0%	37	
3MSS 1170	Eventuation works for Pile - PC 61 (02)	1	02-lan-16	02- Jan-16	0%	0%	37	$= \frac{1}{1000} \text{ marks for Pile} - \text{PC A1 (12)}$
3MSS 1171	Excavation works for Pile - PC 53 (02)	1	09-Jan-16	11lan-16	0%	0%	37	Regulation works for Pile - PC 53 (02)
3MSS 1172	Even visition works for Pile - PC 52 (02)	1	08- Jan-16	09- Jan-16	0%	0%	37	Production works for Pile - PC 52 (02)
3MSS 1173	Excavation works for Pile - PC 54 (02)	1	11-Jan-16	11lan-16	0%	0%	37	- $ -$
3MSS.1174	Excavation works for Pile - PC 41 (02)	3	11-Jan-16	14-Jan-16	0%	0%	37	Excavation works for Pile - PC 41 (02)
3MSS.1175	Excavation works for Pile - PC 42 (07)	3	14-Jan-16	18-Jan-16	0%	0%	37	Excavation works for Pile - PC 42 (07)
3MSS.1176	Excavation works for Pile - PC 44 (02)	1	14-Jan-16	15-Jan-16	0%	0%	37	Excavation works for Pile - PC 44 (02)
3MSS.1177	Excavation works for Pile - PC 43 (02)	3	14-Jan-16	18-Jan-16	0%	0%	37	Excavation works for Pile - PC 43 (02)
3MSS.1178	Excavation works for Pile - PC 30 (S5)	3	14-Jan-16	18-Jan-16	0%	0%	37	Excavation works for Pile - PC 30 (S5)
3MSS.1179	Excavation works for Pile - PC 32 (01)	1	09-Jan-16	11-Jan-16	0%	0%	52	I Excavation works for Pile - PC 32 (01)
3MSS.1180	Excavation works for Pile - PC 31 (01)	0			0%	0%	52	II: Excavation works for Pile - PC 31 (01)
3MSS.1181	Excavation works for Pile - PC 16 (01)	1	18-Jan-16	19-Jan-16	0%	0%	52	I: Excavation works for Pile - PC 16 (01)
3MSS.1182	Excavation works for Pile - PC 15 (01)	1	18-Jan-16	18-Jan-16	0%	0%	52	Excavation works for Pile - PC 15 (01)
3MSS.1183	Rebar Installation - Portion B3	0			0%	0%	52	Rebar Installation - Portion B3
3MSS.1184	Rebar Installation - PC 62 (02)	1	09-Jan-16	11-Jan-16	0%	0%	57	Rebar Installation - PC 62 (02)
3MSS.1185	Rebar Installation - PC 61 (02)	1	08-Jan-16	09-Jan-16	0%	0%	57	Rebar Installation - PC 61 (02)
3MSS.1186	Rebar Installation - PC 53 (02)	1	16-Jan-16	16-Jan-16	0%	0%	58	Retiar Installation - PC 53 (02)
3MSS.1187	Rebar Installation - PC 52 (02)	1	15-Jan-16	16-Jan-16	0%	0%	58	Rebar Installation - PC 52 (02)
3MSS.1188	Rebar Installation -PC 54 (02)	1	16-Jan-16	18-Jan-16	0%	0%	58	Rebar Installation -PC 54 (02)
3MSS.1189	Rebar Installation - PC 41 (02)	3	20-Jan-16	23-Jan-16	0%	0%	51	Rebar Installation - PC 41 (02)
3MSS.1190	Rebar Installation - PC 42 (07)	5	23-Jan-16	29-Jan-16	0%	0%	50	Rebar Installation - PC 42 (07)
3MSS.1191	Rebar Installation -PC 44 (02)	3	21-Jan-16	25-Jan-16	0%	0%	53	Rebar Installation -PC 44 (02)
3MSS.1192	Rebar Installation - PC 43 (02)	3	23-Jan-16	27-Jan-16	0%	0%	53	Rebar Installation - PC 43 (02)
3MSS.1193	Rebar / Earthing Installation - PC 30 (S5)	18	23-Jan-16	17-Feb-16	0%	0%	37	Rebar /Earthing Installation - PC 30 (S5)
3MSS.1194	Rebar Installation - PC 32 (01)	1	16-Jan-16	16-Jan-16	0%	0%	52	I Rebar Installation - PC 32 (01)
3MSS.1195	Rebar Installation - PC 31 (01)	0	25 Jan 16	06 Jan 16	0%	0%	52	U Repar installation - PC 31 (U1)
31/155.1196	Rebar / Earthing Installation - PC 16 (01)	1	25-Jan-16	26-Jan-16	0%	0%	52	i u Rebar /carting installation = PC 16 (01)
3MSS 1197	Pile can side formworke - Portion B3	0	23-Jan-10	23-Jan-10	0%	0%	52	Dia cap cité formunité - Porting B3
3MSS 1199	Pile cap side formworks - PC 62 (02)	0			0%	0%	57	Pie can side formwarks of the C62 (02)
3MSS.1200	Pile cap side formworks - PC 61 (02)	0			0%	0%	57	I Pie cao side formworks - PC 61 (02)
3MSS.1201	Pile cap side formworks - PC 53 (02)	1	08-Jan-16	09-Jan-16	0%	0%	58	Pile cap side formworks - PC 53 (02)
3MSS.1202	Pile cap side formworks - PC 52 (02)	1	15-Jan-16	16-Jan-16	0%	0%	58	Pile cap side formworks - PC 52 (02)
3MSS.1203	Pile cap side formworks -PC 54 (02)	0			0%	0%	58	Pile cap side formworks -PC 54 (02)
3MSS.1204	Pile cap side formworks -PC 41 (02)	0			0%	0%	51	Pile cap side formworks -PC 41 (02)
3MSS.1205	Pile cap side formworks - PC 42 (07)	0			0%	0%	50	Pile cap side formworks - PC 42 (07)
3MSS.1206	Pile cap side formworks -PC 44 (02)	0			0%	0%	50	Pile cap side formworks -PC 44 (02)
3MSS.1207	Pile cap side formworks - PC 43 (02)	0			0%	0%	50	Pile cap side formworks - PC 43 (02)
3MSS.1208	Pile cap side formworks - PC 30 (S5)	0			0%	0%	37	Pile cap side formworks - PC 30 (S5)
3MSS.1209	Pile cap side formworks - PC 32 (01)	0			0%	0%	52	Pile cap side formworks - PC 32 (01)
3MSS.1210	Pile cap side formworks - PC 31 (01)	0			0%	0%	52	Pile cap side formworks PC 31 (01)
3WSS.1211 2MSS 1212	Pile cap side formworks -PC 16 (01)	0			0%	0%	52	File cap side formworks - PC 15 (01)
3MSS 1212	Partian B3 concrete nouring	0			0%	0%	52	Prie cap sub-prime van service (0)
3MSS.1214	Concrete pouring - PC 62 (02)	1	11-Jan-16	12-Jan-16	0%	0%	53	
3MSS.1215	Concrete pouring - PC 61 (02)	1	09-Jan-16	11-Jan-16	0%	0%	53	Concrete pouring - PC 61 (02)
3MSS.1216	Concrete pouring - PC 53 (02)	1	16-Jan-16	18-Jan-16	0%	0%	54	Concrete pouring - PC 53 (02)
3MSS.1217	Concrete pouring - PC 52 (02)	1	16-Jan-16	16-Jan-16	0%	0%	54	Concrete pouring - PC 52 (02)
3MSS.1218	Concrete pouring - PC 54 (02)	1	18-Jan-16	19-Jan-16	0%	0%	54	Concrete pouring - PC 54 (02)
3MSS.1219	Concrete pouring - PC 41 (02)	1	23-Jan-16	25-Jan-16	0%	0%	51	Concrete pouring - PC 41 (02)
3MSS.1220	Concrete pouring - PC 42 (07)	1	29-Jan-16	30-Jan-16	0%	0%	50	Concrete pouring - PC 42 (07)
3MSS.1221	Concrete pouring - PC 44 (02)	1	25-Jan-16	26-Jan-16	0%	0%	50	Concrete pouring - PC 44 (02)
3MSS.1222	Concrete pouring - PC 43 (02)	1	27-Jan-16	28-Jan-16	0%	0%	50	Concrete pouring - PC 43 (02)
3MSS.1223	Concrete pouring - PC 30 (S5)	2	17-Feb-16	19-Feb-16	0%	0%	37	Conprete pouring - PC 30 (S5)
3MSS.1224	Concrete pouring - PC 32 (01)	1	16-Jan-16	18-Jan-16	0%	0%	95	U Concrete pouring - PC 32 (01)
3MSS.1225	Concrete pouring - PC 31 (01)	1	16-Jan-16	16-Jan-16	0%	0%	95	U Concrete Pouring - PC 31 (01)
3MSS.1226	Concrete pouring - PC 15 (01)	1	∠o-Jan-16	∠/-Jan-16	0%	0%	52	Concrete pouring - PC 16 (01)
3MSS.1227	Concrete pouring - PC 15 (01)	1	∠o-Jan-16	∠o-Jan-16	0%	0%	52	Concrete pouring - PC 15 (01)
Manhole (Ty	pe 12,8,40,1,11) - Portion B	12	15-Jan-16	- 30-Jan-16	0%	0%	50	
3MSS.1300	Excavation (Type 12) - GL 5/A-B	1	15-Jan-16	16-Jan-16	0%	0%	53	Excavation (Type 12) - GL 5/A-B
3MSS.1301	Rebar Installation (Type 12) - GL 5/A-B	1	16-Jan-16	18-Jan-16	0%	0%	53	Li: Rebar Installation (Type 12) - GL 5/A-B
3MSS.1302	Formworks (Type 12) - GL 5/A-B	1	18-Jan-16	19-Jan-16	0%	0%	53	Formworks (1)pp 12) - GL S/A-B
3IVISS.1303		1	18-Jan-16	∠u-Jan-16 18- len 46	0%	0%	53	
3MSS 1304	Rehar Installation (Type 8) - GL 6-7/B-C	1	18- lan-16	19- Jan-16	0%	0%	50	
3MSS.1306	Formworks (Type 8) - GL 6-7/B-C	1	19-Jan-16	20-Jan-16	0%	0%	50	Formworks (Type 8) - GL 6-7/B-C
3MSS.1307	Concrete Pouring (Type 8) - GL 6-7/B-C	1	20-Jan-16	21-Jan-16	0%	0%	51	Concrete Pouring (Type 8) - GL 6-7/B-C
3MSS.1308	Excavation (Type 40) - GL 6-7/C-D	1	18-Jan-16	19-Jan-16	0%	0%	50	Excavation (Type 40) - GL 6-7/C-D
3MSS.1309	Rebar Installation (Type 40) - GL 6-7/C-D	1	19-Jan-16	20-Jan-16	0%	0%	50	Rebar Installation (Type 40) - GL 6-7/CD
3MSS.1310	Formworks (Type 40) - GL 6-7/C-D	1	20-Jan-16	21-Jan-16	0%	0%	50	Formworks (Type 40) - GL 6-7/C-D
3MSS.1311	Concrete Pouring (Type 40) - GL 6-7/C-D	0	21-Jan-16	21-Jan-16	0%	0%	51	I Concrete Pouring (Type 40) - GL 6-7/C-D
3MSS.1312	Excavation (Type 1) - GL 4-5/C-D	1	25-Jan-16	26-Jan-16	0%	0%	50	Excavation (Type 1) - GL 4-5/C-D
3MSS.1313	Rebar Installation (Type 1) - GL 4-5/C-D	1	26-Jan-16	27-Jan-16	0%	0%	50	Rebar Installation (Type I) - GL 4-5/C-D
3MSS.1314	Formworks (Type 1) - GL 4-5/G-D	1	27-Jan-16	28-Jan-16	0%	0%	50	U ⊢ormworks (Iype 1) - GL 4-5/C-D
								Page 5 of 7 M+3 Months Rolling Programme
	LICINISE							Date Revision Checked Approved
					Мт З	Mont	he P	
	ALL OLLO THE				INT J	mont		
	- CHONG							18-Dec-15 Status Update 012 Edgar Payos Leo Harnett
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3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.13 3MS	1315 Concrete Pouring (Type 1) - GL 4-5/C-D 1316 Excavation (Type 11) - GL 5-6/D 1317 Rebar Installation (Type 11) - GL 5-6/D 1318 Formworks (Type 11) - GL 5-6/D 1319 Concrete Pouring (Type 11) - GL 5-6/D 1319 Concrete Pouring (Type 11) - GL 5-6/D 1310 Concrete Pouring (Type 11) - GL 5-6/D 1320 Excavation 1321 Rebar Installation 1322 Formworks 1323 Concrete Pouring 1324 Excavation 1325 Rebar Installation 1326 Formworks 1327 Concrete Pouring 1326 Formworks 1327 Concrete Pouring 1328 Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 238 Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 239 Preparation of Formworks & Cast underground pipes - Portion A1	Duration 0 1 1 1 1 2 2 2 1 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1	Start 28-Jan- 26-Jan- 27-Jan- 28-Jan- 29-Jan- 11-Jan- 18-Jan- 20-Jan- 21-Jan- 22-Jan- 22-Jan- 22-Jan- 22-Jan- 22-Jan- 22-Jan- 22-Jan- 25-Jan- 11-Jan- 11-Jan- 11-Jan-	Finish 16 28-Jan-16 16 27-Jan-16 16 28-Jan-16 16 29-Jan-16 16 30-Jan-16 16 26-Jan-16 16 26-Jan-16 16 26-Jan-16 16 20-Jan-16 16 20-Jan-16 16 25-Jan-16 16 26-Jan-16 16 26-Jan-16 16 26-Jan-16 16 26-Jan-16 16 26-Jan-16 16 26-Jan-16	Complete 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Complete 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Float 51 50 50 50 50 96 96 96 96	3 4 06 13 20 27 03 10 17 24 I Concrete Pouring (Type 1) - GL Excavation (Type 11) - GL 5-6/D Excavation (Type 11) - GL Image: Concrete Pouring (Type 11) - GL I Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL I Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL I Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL Image: Concrete Pouring (Type 11) - GL	5 6 7 31 07 14 21 28 06 13 20 27 03 4-5/C-D 5-6/D GL 5-6/D
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3MSS.1: Lift / Esca Lift Pit 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.1: 3MSS.13	31319 Concrete Pouring (Type 11) - GL 5-6/D salator Pit t (GL 3-4/B'-C') 1320 Excavation 1321 Rebar Installation 1322 Formworks 1323 Concrete Pouring 1324 Excavation 1325 Rebar Installation 1326 Formworks 1327 Concrete Pouring 1326 Formworks 1327 Concrete Pouring • Underground Drainage Concrete Pouring • Underground Drainage Protion A1 (2 Nr of M/H) 329 Preparation of Formworks & Cast underground pipes - Portion A1 320 Installation of Underground Drainage helw R2 Slab - Portion A1 320 Installation of Underground Drainage helw R2 Slab - Portion A1	1 12 7 2 2 2 2 1 1 7 2 2 2 2 2 2 1	29-Jan- 11-Jan- 18-Jan- 18-Jan- 20-Jan- 22-Jan- 25-Jan- 11-Jan- 11-Jan-	16 30-Jan-16 16 26-Jan-16 16 26-Jan-16 16 20-Jan-16 16 20-Jan-16 16 22-Jan-16 16 25-Jan-16 16 26-Jan-16 16 25-Jan-16 16 26-Jan-16 16 26-Jan-16	0% 0% 0% 0% 0%	0% 0% 0% 0%	50 96 96 96	Concrete Pouring (Type 11) -	GL 5-6/D
Lift / Esca Lift Pit 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.11 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	salator Pit t (GL 3-4/B'-C') 1320 Excavation 1321 Rebar Installation 1322 Formworks 1323 Concrete Pouring 1324 Excavation 1325 Rebar Installation 1326 Formworks 1327 Concrete Pouring • Underground Drainage Concrete Pouring • Underground Drainage Stab - Portion A1 (2 Nr of M/H) 328 Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 329 Preparation of Formworks & Cast underground pipes - Portion A1 (2 Nr of M/H)	12 7 2 2 2 2 1 1 7 2 2 2 2 2 1	11-Jan- 18-Jan- 20-Jan- 22-Jan- 25-Jan- 11-Jan- 11-Jan-	16 26-Jan-16 16 20-Jan-16 16 20-Jan-16 16 22-Jan-16 16 25-Jan-16 16 25-Jan-16 16 25-Jan-16 16 25-Jan-16 16 26-Jan-16 16 19-Jan-16	0% 0% 0% 0%	0% 0% 0% 0%	96 96 96	Excavation	
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Escalat 3MSS.13 3MS	tor Pit (GL 4-5/B'-C') Excavation Excavation Excavation Formworks Concrete Pouring Underground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) Preparation of Formworks & Casts underground pipes - Portion A1 Installation of Underground Drainage below B2 Slab - Portion A1 Inderground Drainage below B2 Slab - Portion A1 Inderground Drainage below B2 Slab - Portion A1	7 2 2 2 2 1	11-Jan-	16 <u>19-Jan-16</u>	0%	0%	96	Concrete Pouring	
3MSS.11 3MSS.11 3MSS.11 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	1324 Excavation 1325 Rebar Installation 1326 Formworks 1327 Concrete Pouring - Underground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 328 Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 329 Preparation of Formworks & Cast underground pipes - Portion A1 330 Installation of Underground Drainage below B2 Slab - Portion A1	2 2 2 1	11-Jan-		0%	0%	52		
3///55.11 3///55.11 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13	1325 Rebar Installation 1325 Rebar Installation 1326 Formworks 1327 Concrete Pouring • Underground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) 329 Preparation of Formworks & Cast underground pipes - Portion A1 320 Installation of Underground Drainage below B2 Slab - Portion A1	2 2 2 1	II-Jail-	16 12 lon 16	0%	0%	51		
3MSS.11 3MSS.11 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	Action of Formworks Concrete Pouring Underground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) Preparation of Formworks & Cast underground pipes - Portion A1 Underground Drainage below B2 Slab - Portion A1	2 2 1	12 lon	16 15 Jan 16	0%	0%	51		······
3///55.11 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13 3//55.13	FUTINIVOIRS FOURING Concrete Pouring Underground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) Preparation of Formworks & Cast underground pipes - Portion A1 Installation of Underground Drainage below B2 Slab - Portion A1 Installation of Londerground Drainage below B2 Slab - Portion A1	1	15-Jan-	10 13-Jan-10	0%	0%	50		
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	Concrete Fouring Concrete Fouring Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) Preparation of Formworks & Cast underground pipes - Portion A1 Installation of Underground Drainage below B2 Slab - Portion A1 Installation of Underground Drainage below B2 Slab - Portion A1		10-Jan-	10 10-Jan-10	0%	0%	52		
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	Orderground Drainage Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H) Preparation of Formworks & Cast underground pipes - Portion A1 Installation of Underground Drainage below B2 Slab - Portion A2 (2 Nr of M/H)	00	To-Jan-	10 19-Jan-10	0%	0%	52		
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	Installation of Underground Dranage below b2 Slab - Portion A1 (2 Nr of W/H) Preparation of Formworks & Cast underground pipes - Portion A1 Installation of Linderground Dranage below B2 Slab - Portion A2 (2 Nr of M/H)	36	06-Jan-	16 22-Feb-16	0%	0%	21		
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	329 Preparation of Formworks & Cast underground pipes - Pontion A1 330 Installation of Linderground Drainage below B2 Slab - Pontion A2 (2 Nr of M/H)	3	00-Jan-	10 12-Jan-10	0%	0%	12	, Installation of Onderground Drainage below B2 Stab - PC	
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	330 Installation of Linderground Drainage below B2 Slab - Portion 62 (2 Nr of M/H)	2	12-Jan-	16 14-Jan-16	0%	0%	12	Preparation of Formworks & Cast underground p	
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13		5	07-Jan-	16 13-Jan-16	0%	0%	19	Installation of Underground Drainage below	BZ SIED - POTION AZ (Z INF OF IM/H)
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	331 Preparation of Formworks & Cast underground pipes - Portion A2	2	13-Jan-	16 15-Jan-16	0%	0%	19	Preparation of Formworks & Cast unde	ground pipes - Portion A2
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	Installation of Underground Drainage below B2 Slab - Portion A3 (2 Nr of M/H)	5	20-Jan-	16 26-Jan-16	0%	0%	27	Installation of Underground Drai	hage below B2 Slab - Portion A3 (2 Nr of M/H)
3MSS.13 3MSS.13 3MSS.13 3MSS.13 3MSS.13	333 Preparation of Formworks & Cast underground pipes - Portion A3	2	26-Jan-	16 28-Jan-16	0%	0%	27	Preparation of Formworks 8	Cast underground pipes - Portion A3
3MSS.13 3MSS.13 3MSS.13 3MSS.13	J34 Installation of Underground Drainage below B2 Slab - Portion B1 (1 Nr of M/H)	5	29-Jan-	10 U4-Feb-16	0%	0%	25		ation or underground Urainage below B2 Slab - Portion B1 (1 Nr of M/H)
3MSS.13 3MSS.13 3MSS.13	Soo Preparation of Formworks & Cast underground pipes - Portion B1	2	04-Feb-	10 U6-Feb-16	0%	0%	31		eparation of Formworks & Cast underground pipes - Portion B1
3MSS.13 3MSS.13	unistaliation of Underground Drainage below B2 Slab - Portion B2 (3 Nr of M/H)	5	22-Jan-	16 28-Jan-16	0%	0%	25		Installation of Underground Drainage below B2 Slab - Portion B2 (3 Nr of M/H)
3MSS.13	331 Preparation of Formworks & Cast underground pipes - Portion B2	2	28-Jan-	10 30-Jan-16	0%	0%	25		Preparation of Formworks & Cast underground pipes - Portion B2
	Installation of Underground Drainage below B2 Slab - Portion B3 (1 Nr of M/H)	5	13-Feb-	10 19-Feb-16	0%	0%	27		Installation of Underground Drainage below B2 Slab - Portion B3 (1 Nr of M/H)
3MSS.13	339 Preparation of Formworks & Cast underground pipes - Portion B3	2	19-Feb-	16 22-Feb-16	0%	0%	27		Preparation of Formworks & Cast underground pipes - Portion B3
Tower Cra	rane No 1	82	28-Nov-	15 10-Mar-16	0%	17.43%	0		
3MSS.13	340 Position Sign-off for TC1	1	28-Nov-	15 28-Nov-15	100%	100%		bn Sign-off for T C1	
3MSS.13	341 Design submission and approval	21	23-Dec-	15 19-Jan-16	19.05%	0%	0	Design submission and approval	
3MSS.13	342 Mobilization & procurement	30	20-Jan-	16 26-Feb-16	0%	0%	0	·····	Mobilization & procurement
3MSS.13	343 Blinding and Waterproofing	2	27-Feb-	16 01-Mar-16	0%	0%	0		Blinding and Waterproofing
3MSS.13	344 Rebar Installation - Tower Cranes no 1 Base Casting	5	01-Mar-	16 07-Mar-16	0%	0%	0		Rebar Installation - Tower Cranes no 1 Base Casting
3MSS.13	345 Formworks Installation - Tower Cranes no 1 Base Casting	2	07-Mar-	16 09-Mar-16	0%	0%	0		Formworks Installation - Tower Cranes no 1 Base Casting
3MSS.13	346 Concrete Casting	1	09-Mar-	16 10-Mar-16	0%	0%	0		Concrete Casting
Stage 2		78	15-Jan-	16 23-Apr-16	0%	0%	27		
Stage 2 -	- B2F Slab Construction	31	15-Jan-	16 25-Feb-16	0%	0%	24		
3MSS.13	347 Backfill and Roll - Portion A1	2	15-Jan-	16 18-Jan-16	0%	0%	12	Backfill and Roll - Portion A1	
3MSS.13	348 Waterproofing works - Portion A1	2	18-Jan-	16 20-Jan-16	0%	0%	12	Waterproofing works - Portion	ja1
3MSS.13	349 Lay Rebar for B2 Slab - Portion A1	14	20-Jan-	16 05-Feb-16	0%	0%	1		Lay Rebar for B2 Slab - Portion A1
3MSS.13	350 Formworks for B2 Slab - Portion A1	2	05-Feb-	16 11-Feb-16	0%	0%	1		Formworks for B2 Slab - Portion A1
3MSS.13	351 Concrete Pouring - Portion A1	1	11-Feb-	16 12-Feb-16	0%	0%	0		Concrete Pouring - Portion A1
3MSS.13	352 Backfill and Roll - Portion A2	2	26-Jan-	16 28-Jan-16	0%	0%	13	Backfill and Roll - Po	tion A2
3MSS.13	353 Waterproofing works - Portion A2	2	28-Jan-	16 30-Jan-16	0%	0%	13	Waterproofing w	orks - Portion A2
3MSS.13	354 Lay Rebar for B2 Slab - Portion A2	17	30-Jan-	16 23-Feb-16	0%	0%	2		Lay Rebar for B2 Slab - Portion A2
3MSS 13	355 Formworks for B2 Slab - Portion A2	1	23-Feb-	16 24-Feb-16	0%	0%	1		Formworks for B2 Slab - Portion A2
3MSS.13	356 Concrete Pouring - Portion A2	1	24-Feb-	16 25-Feb-16	0%	0%	0		Concrete Pouring - Portion A2
3MSS 13	357 Backfill and Roll - Portion A3	1	30lan-	16 01-Feb-16	0%	0%	4		Backfill and Roll - Portion A3
3MSS 13	358 Waterproofing works - Portion A3	1	01-Feb-	16 02-Feb-16	0%	0%	4		Waterproofing works - Portion A3
3MCC 12	359 Lav Rehar for B2 Slab - Portion A3	۵ ۵	02-Eab	16 12-Feb-16	0%	0%	2		Lav Rehar for B2 Slah - Portion A3
3MSS 13	360 Formworks for B2 Slab - Portion A3	1	12-Feb	16 13-Feb-16	0%	0%	1		Expression of the state of the
31400.13	361 Concrete Pouring - Portion A3	4	12-00	16 15-Eob 16	00/	0%	0		
3Mee 40	362 Backfill and Roll - Portion B1	1	21_ lon	16 22 lon 46	0%	0%	21		Backfill and Roll - Portion B1
31100.13	363 Waterproofing works - Portion P1	2	21-Jall-	16 26 lon 40	0%	0 /0	24		Waterproofing works - Portion B1
31100.13	367 Backfill and Poll - Portion B2	2	20-Jan-	10 20-Jan-16	0%	0%	31 2F		
31/100.13	368 Waterproofing works - Portion P2	2	02 50-Jan-	16 04 Eab 40	0%	0 /0	20		
31/155.13	100 vialer proving works - Folia 011 Dz 272 Padrill and Pall Dartian P2	2	45 5-1	10 04-FeD-16	0%	0%	2/		
31/155.13	372 Decknill and Noll = Folition D2 373 Waterproofing works - Dottion D2	4	10 Eat	10 19-Feb-16	0%	0%	20 2F		Matagraphic Polluli Do
31/155.13	Site Examples Pile Can Construction	4	19-Feb-	10 24-Feb-16	0%	0%	25		vvaterprooiing works - Porton B3
Stage 2 -	- Site Formation & Pile Cap Construction	56	15-Feb-	10 23-Apr-16	0%	0%	21		
Portion	n A4	56	15-Feb-	16 23-Apr-16	0%	0%	0		
3MSS.13	1377 Excavate to -2.3mPD for B2 Slab Formation Level (GL F'-H'/7'-2') - Portion A4	6	15-Feb-	16 22-Feb-16	0%	0%	0		Excavate to -2.3mPD for B2 Slab Formation Level (GL F'-H'/7'-2) - Portio
3MSS.13	1378 Excavation works for Pile -PC 09 (02)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 09 (02)
3MSS.13	1379 Excavation works for Pile -PC 10 (01)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 10 (01)
3MSS.13	1380 Excavation works for Pile -PC 54 (03)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 54 (03)
3MSS.13	1381 Excavation works for Pile -PC 55 (03)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 55 (03)
3MSS.13	1382 Excavation works for Pile -PC 51 (02)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 51 (02)
3MSS.13	1383 Excavation works for Pile -PC 45 (07)	1	15-Apr-	16 15-Apr-16	0%	0%	0		Excavation works for Pile -PC 45 (07)
3MSS.13	1384 Rebar Installation - PC 09 (02)	1	15-Apr-	16 16-Apr-16	0%	0%	2		Rebar Installation - PC 09 (02)
3MSS.13	1385 Rebar Installation - PC 10 (01)	1	15-Apr-	16 16-Apr-16	0%	0%	2		Rebar Installation - PC 10 (01)
3MSS.13	1386 Rebar Installation - PC 54 (03)	3	15-Apr-	16 19-Apr-16	0%	0%	0		Rebar Installation - PC 54 (03)
3MSS.13	1387 Rebar Installation - PC 55 (03)	3	15-Apr-	16 19-Apr-16	0%	0%	0		Rebar Installation - PC 55 (03)
3MSS.1	1388 Rebar Installation - PC 51 (02)	1	15-Apr-	16 16-Apr-16	0%	0%	0		Rebar Installation - PC 51 (02)
3MSS.13	1389 Rebar Installation - PC 45 (07)	5	15-Apr-	16 21-Apr-16	0%	0%	0		Rebar Installation - PC 45 (07)
3MSS.1	1390 Pile cap side formwork -PC 09 (02)	1	16-Apr-	16 18-Apr-16	0%	0%	3		Pile cap side formwork -PC 09 (02)
3MSS.13	1391 Pile cap side formwork -PC 10 (01)	1	16-Apr-	16 18-Apr-16	0%	0%	3		Pile cap side formwork -PC 10 (01)
3MSS.1	1392 Pile cap side formwork -PC 54 (03)	1	19-Apr-	16 20-Apr-16	0%	0%	1		Pile cap side formwork -PC 54 (03)
3MSS.1:	1393 Pile cap side formwork -PC 55 (03)	1	19-Apr-	16 20-Apr-16	0%	0%	1		Pile cap side formwork -PC 55 (03)
3MSS.1	1394 Pile cap side formwork -PC 51 (02)	1	19-Apr-	16 20-Apr-16	0%	0%	1		Pile cap side formwork -PC 51 (02)
3MSS.13	1395 q	1	21-Apr-	16 22-Apr-16	0%	0%	0		∎ q
3MSS.13	1396 concrete pouring - PC 09 (02)	1	18-Apr-	16 19-Apr-16	0%	0%	4		concrete pouring - PC 09 (02)
21466.4	1397 concrete pouring - PC 10 (01)	1	18-Apr-	16 19-Apr-16	0%	0%	4		concrete pouring - PC 10 (01)
310133-1-	1398 concrete pouring - PC 54 (03)	1	20-Apr-	16 21-Apr-16	0%	0%	2		Concrete pouring - PC 54 (03)
3MSS 1	····· ··· · ··· · · · · · · · · · · ·				- /0		, _		
3MSS.1								Pane P	of 7 M+3 Months Rolling Programme
3MSS.1	The second second second second second second second second							Tage 0	
3MSS.1	LICINIGE								Date Revision Checked Approved
3MSS.1					R.A	0. 1.4	. –		
3MSS.1					IVI + `	3 IVIONTI	ns R	olling Programme	02-Dec-15 3MRP Rev B 1(1st Draft) Edgar Pavos I eo Harpett
3MSS.1					IVI+ 3		ns R	olling Programme	02-Dec-15 3MRP Rev B 1(1st Draft) Edgar Payos Leo Harnett
3MSS.1	CHONG				IVI+ 3		ns R	olling Programme	02-Dec-15 3MRP Rev B 1(1st Draft) Edgar Payos Leo Harnett 18-Dec-15 Status Update 012 Edgar Payos Leo Harnett
3MSS.11	CHONG			3MRF	NI+ C	s Monti	ns R t Pro	olling Programme	02-Dec-15 3MRP Rev B 1(1st Draft) Edgar Payos Leo Harnett 18-Dec-15 Status Update 012 Edgar Payos Leo Harnett 23-Dec-15 Status Update 013 Edgar Payos Leo Harnett
3MSS.1	CHONG			3MRF	Rev B 1	s Monti	ns R t Pro	olling Programme gress Update 014 - 30 Dec 15	02-Dec-15 3MRP Rev B 1(1st Draft) Edgar Payos Leo Harnett 18-Dec-15 Status Update 012 Edgar Payos Leo Harnett 23-Dec-15 Status Update 013 Edgar Payos Leo Harnett 30 Dec 15 Status Update 014 Edgar Payos Leo Harnett



Activ	ity ID	Activity Name	Planned	Planned	Planned	Planned %	Actual %	Total	December	January	F
			Duration	Start	Finish	Complete	Complete	Float			21 07
	3MSS 1399	concrete pouring - PC 55 (03)	1	20-Apr-16	21-Apr-16	0%	0%	2	00 13 20 2	· 03 10 17 24	31 07
	3MSS 1400	concrete pouring - PC 51 (02)	1	20-Apr-16	21-Apr-16	0%	0%	2			
	3MSS 1401	concrete pouring - PC 45 (07)	1	22-Apr-16	23-Apr-16	0%	0%	0			
	Portion A5		10	22-Feb-16	04-Mar-16	0%	0%	27			
	3MSS 1402	Excavate to -2 3mPD for B2 Slab Formation Level (GL H- 1/1-3) - Portion 45	6	22-Eeb-16	29-Eeb-16	0%	0%	27			
	3MSS 1403	Excavate to -2.3 mPD for B2 Slab battered slope (GL H'-, I'/7'-2) - Portion A5 (N)	2	29-Feb-16	02-Mar-16	0%	0%	27			
	3MSS.1404	Excavate to -2.3mPD for B2 Slab battered slope (GLF'-H'/2-4) - Portion A5 (S)	2	02-Mar-16	04-Mar-16	0%	0%	27			
	M+ AEL South		132	02-Dec-15	23-May-16	0%	18.14%	246			
	East Pile Cap (0	Core wall)	42	29-Mar-16	23-May-16	0%	0%	205			
IIr	3MSS.S001	Excavate to Reduce levels +2.45mPD	0			0%	0%	-12	Excavate to Reduce levels	-2.45mPD	
	3MSS.S002	Battered Slope	0			0%	0%	205	Battered Slope		
	3MSS.S003	Rebar Installation	36	29-Mar-16	13-May-16	0%	0%	205			
	3MSS.S004	Formworks Installation	5	16-May-16	21-May-16	0%	0%	205			
	3MSS.S005	Concrete pouring	1	23-May-16	23-May-16	0%	0%	205			
	DCS Structure		78	02-Dec-15	10-Mar-16	0%	34.25%	246			
	3MSS.D000	Dewatering - Installation and Test	16	02-Dec-15	21-Dec-15	100%	100%		Dewatering	nstallation and Test	
	3MSS.D001	Excavate from +5.50mPD (Existing Level) to +4.85mPD	3	28-Dec-15	02-Jan-16	34.25%	0%	249		Excavate from +5.50mPD (Existing Level) to +4.85mPD	
	3MSS.D002	Excavate from +4.85mPD to +3.70mPD	4	02-Jan-16	07-Jan-16	0%	0%	249		Excavate from +4.85mPD to +3.70mPD	
	3MSS.D003	Install 1st Layer Struts at +4.2mPD	13	12-Jan-16	27-Jan-16	0%	0%	249		Install 1st Layer Stru	its at +4.2mPD
	3MSS.D004	Excavate from +3.5 to -0.50mPD	15	27-Jan-16	16-Feb-16	0%	0%	246			Excavate from
	3MSS.D005	Excavate to -0.5mPD to -2.5mPD	13	17-Feb-16	02-Mar-16	0%	0%	246			
	3MSS.D006	Install 2nd Layer Struts at 0.0mPD (w/ preloading)	7	03-Mar-16	10-Mar-16	0%	0%	246			
	Tower Crane No	03	29	23-Dec-15	28-Jan-16	0%	7.33%	264			
	3MSS.T002	Position Sign-off for T C3	1	23-Dec-15	23-Dec-15	100%	100%		on Sign-off for T C3		
	3MSS.T003	Design submission and approval	10	30-Dec-15	11-Jan-16	0%	0%	263	Design submission and approval		
	3MSS.T004	Mobilization & procurement	15	12-Jan-16	28-Jan-16	0%	0%	263		Mobilization & procurement	
	3MSS.T006	Excavate ro reduce level +2.45mPD	1	14-Jan-16	15-Jan-16	0%	0%	263		Excavate ro reduce level +2.45mPD	
	3MSS.T007	Excavate battered slope	3	16-Jan-16	19-Jan-16	0%	0%	263		Excavate battered slope	
	3MSS.T008	Excavation for TC3 Base	2	20-Jan-16	22-Jan-16	0%	0%	264		Excavation for TC3 Base	
	3MSS.T009	Construction of Pile Caps for TC3 Base	3	22-Jan-16	26-Jan-16	0%	0%	264			Construction
	M+.70 Externa	al Works	122	23-Dec-15	31-May-16	0%	0%	221			
	Interfacing Work	ks	122	23-Dec-15	31-May-16	0%	0%	221			
Г	#6 - Work Sequ	ence Along Interface south of AEL	6	24-May-16	31-May-16	0%	0%	205			
	Pile Cap 95 (M14	4a, 15, 16)	6	24-May-16	31-May-16	0%	0%	205			
	3MIF.1001	Excavate to Reduce levels +3.9mPD	1	24-May-16	24-May-16	0%	0%	205			
	3MIF.1002	Battered Slope	1	26-May-16	26-May-16	0%	0%	205			
	3MIF.1003	Rebar Installation	2	27-May-16	28-May-16	0%	0%	205			
	3MIF.1004	Formworks Installation	1	30-May-16	30-May-16	0%	0%	205			
	3MIF.1005	Concrete pouring	1	31-May-16	31-May-16	0%	0%	205			
	Pile Cap 100		1	27-May-16	27-May-16	0%	0%	205			
	3MIF.1031	Excavate to Reduce levels +0.7mPD	1	27-May-16	27-May-16	0%	0%	205			
	#100A - Stoc kpi	iling in Arts Pavilion Site	94	23-Dec-15	22-Apr-16	0%	0%	221			
	3MIF.1150	Stockpile period	94	23-Dec-15	22-Apr-16	4.25%	0%	221			



February	March	April
5		7
14 21	Concrete pouring - PC 55 (03)	03
	concrete pouring - PC 51 (02)	
	concrete pouring - PC 45 (07)	
	Excavate to -2.3mPD for B2 Slab Formation Level (GL H'- JV
	Excavate to -2.3mPD for B2 Slab battered slope	(GLH'-
	Excavate to -2.3mPD for B2 Slab battered	slope (G
Rebar Ins	tallation	
	Concrete pouring	
rom +3.5 to -0.50mPD		
Install 2	Excavate to -0.5mPD to -2.5mPD	
tion of Pilo Constant TOO De-		
tion of Pile Caps for 1C3 Base		
	Excavate to Reduce levels +3.9mPD	
	Battered Slope Rebar Installation	
	Formworks Installation	
	Concrete pouring	
	Evcavate to Reduce levels +0.7mPD	
		Stock
M+3 Mont	hs Rolling Programme	

Revision	Checked	Approved
3MRP Rev B 1(1st Draft)	Edgar Payos	Leo Harnett
Status Update 012	Edgar Payos	Leo Harnett
Status Update 013	Edgar Payos	Leo Harnett
Status Update 014	Edgar Payos	Leo Harnett



Appendix C. Correspondence from The Harbourside and The Arch management offices

MTR Corporation Limited 香港鐵路有限公司

www.mtr.com.hk

Rremier MTR

Your ref: JEP/EC/TK/bw/T363512/22/0/L0002 Our ref: HBS/I1.3/2015/1243 Date: 10 November 2015

Mott MacDonald Hong Kong Limited

20/F, AIA Kowloon Tower, Landmark East, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong,

Attention: Mr. Eric Ching

By Post & Fax 2827 1823

Dear Mr. Ching,

<u>Re: West Kowloon Cultural District</u> <u>M+ Museum for Visual Culture (Main Contract Works)</u> <u>Environmental Team Consultancy Services</u> Setting Up of Construction Air and Noise Monitoring Station

We refer to your letter dated 2 November 2015 regarding the setting up of construction air and noise monitoring station for West Kowloon Cultural District works.

According to the previous practice which advised by the representatives of owners of The Harbourside, we are not able to facilitate the related system setting up for air and noise monitoring at The Harbourside.

Should you have any enquiries, please feel free to contact me at 3122-7500.

Yours sincerely,

Deon Chui Property Manager /BOH

<u> Rremier</u>

Ref: ARC-R1.2-2015-1033

23 November 2015

Mr. Eric Ching Mott MacDonald Hong Kong Limited 20/F, AIA Kowloon Tower, Landmark East, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong

Dear Mr. Ching,

Re: West Kowloon Cultural District M+ Museum for Visual Culture (Main Contract Works) Environmental Team Consultancy Services Setting Up of Construction Noise Monitoring Station

We refer to your letter dated 2 November 2015 and the phone conversation with our Mr. Tony Ng on 13 November 2015 regarding the set up of construction noise monitoring station for West Kowloon Cultural District works.

We regret that the construction noise monitoring station is not allowed to set up in the area of The Arch.

Should you have any enquiries, please feel free to contact our Assistant Property Manager Mr. Tony Ng on 3516 3111.

Yours sincerely,

Kevin Chan Property Manager The Arch

KEC/TON/ 11



Appendix D. Action and Limit Levels for Construction Phase

22

Air Quality

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

Table D-1: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (µg/m3)	Limit Level (µg/m3)
AM1	273.7	500
AM2	274.2	500

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

Monitoring Station	Action Level (µg/m3)	Limit Level (µg/m3)
AM1	143.6	260
AM2	151.1	260

<u>Noise</u>

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

Table D-3: Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM1		
0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)



Appendix E. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

23

Air Quality

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

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

Table E-1: Event and Action Plan for Air Quality

	Action			
Event	ET actions and keep IEC, EPD and WKCDA	IEC remedial measures.	WKCDA	Contractor
2. Exceedance for two or more consecutive samples	 Notify IEC, WKCDA, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly; Monitor the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.

Construction Noise

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

	Action			
Event	ET Leader	IEC	WKCDA	Contractor
Action Level	 Notify WKCDA, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, WKCDA and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the WKCDA accordingly; Advise the WKCDA on the effectiveness of the proposed remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. 	 Submit noise mitigation proposals to IEC and WKCDA; Implement noise mitigation proposals.
Limit Level	 Inform IEC, WKCDA, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contractor's working procedures; Discuss with the IEC, Contractor and WKCDA on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.

Table E-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:

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

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



Appendix F. Monitoring Schedule

DECEMBER 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
		1	2	3 AM1, AM2 - 24hrTSP, 1hr TSP x3	4	5	
6	7	8	9 AM1, AM2 - 24hrTSP, 1hr TSP x3	10	11	12	
13	14	15 AM1, AM2 - 24hrTSP, 1hr TSP x3	16	17	18	19	
20	21 AM1, AM2 - 24hrTSP, 1hr TSP x3	22	23	24 AM1, AM2 - 24hrTSP, 1hr TSP x3	25	26	
27	28	29	30 AM1, AM2 - 24hrTSP, 1hr TSP x3	31			
		Notes:					
		AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 Noise monitoring at NM1(The Harbourside Tower 1) is being suspended. Liaision with the management office of the International					
		noise monitoring. Please re	efer to Monthly EM&A Repo	rt Section 1.4 for details.	centre are in progress for	granting access to conduct	

JANUARY 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 AM1, AM2 - 24hrTSP, 1hr TSP x3	6	7	8	9
10	11 AM1, AM2 - 24hrTSP, 1hr TSP x3	12	13	14	15 AM1, AM2 - 24hrTSP, 1hr TSP x3	16
17	18	19	20	21 AM1, AM2 - 24hrTSP, 1hr TSP x3	22	23
24	25	26	27 AM1, AM2 - 24hrTSP, 1hr TSP x3	28	29	30
31		Notes: AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 Noise monitoring at NM1(The Harbourside Tower 1) is being suspended. Liaision with the management office of the International Commerce Centre for the other location identified at the International Commerce Centre are in progress for granting access to conduct noise monitoring. Please refer to Monthly EM&A Report Section 1.4 for details.				



Appendix G. Calibration Certifications

25

	High	-Volume TSP Sampler
	<u>5-Po</u>	int Calibration Record
Location	:	AM1(ICC)
Calibrated by	:	K.T.Ho
Date	:	16/10/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0767
Calibration Orfice and Standar	d Calibrat	ion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1013
Ta(K)	:	301

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.2	3.186	1.539	60	59.86
2	13 holes	8.4	2.891	1.398	53	52.88
3	10 holes	6.2	2.484	1.204	44	43.90
4	7 holes	4.4	2.093	1.017	36	35.92
5	5 holes	2.6	1.609	0.786	24	23.94

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>47.088</u> Intercept(b):<u>-12.676</u> Correlation Coefficient(r):<u>0.9995</u>

Checked by: Magnum Fan

Date: 02/11/2015

	<u>High-'</u>	Volume TSP Sampler
	5-Poin	t Calibration Record
Location	:	AM1(ICC)
Calibrated by	:	K.T.Ho
Date	:	16/12/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0767
Calibration Orfice and Standard C	Calibratio	n Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1026
Ta(K)	:	288

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.0	3.237	1.563	58	59.38
2	13 holes	8.2	2.931	1.417	51	52.21
3	10 holes	6.0	2.508	1.215	42	43.00
4	7 holes	4.2	2.098	1.019	34	34.81
5	5 holes	2.4	1.586	0.775	22	22.52

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>46.178</u> Intercept(b):<u>-12.939</u> Correlation Coefficient(r):<u>0.9996</u>

Checked by: Magnum Fan

Date: 21/12/2015

High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AM2 (Harbourside)
Calibrated by	:	K.T.Ho
Date	:	17/10/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8919

Calibrat	tion Relationship
:	2454
:	14 Mar 2015
:	2.09532
:	-0.03812
:	0.99994
	1013
•	1015
:	298.18
:	1013
:	301
	Calibrat

Resi	istance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.485	1.681	60	59.86
2	13 holes	9.2	3.026	1.462	52	51.88
3	10 holes	7.2	2.677	1.296	44	43.90
4	7 holes	4.6	2.140	1.039	34	33.92
5	5 holes	2.6	1.609	0.786	24	23.94

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):40.493

Intercept(b):-8.037

5

Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 20/10/2015

High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AM2 (Harbourside)
Calibrated by	:	K.T.Ho
Date	:	16/12/2015
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8919

Calibration Orfice and Standard	Calibrat	ion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2015
Slope (m)	:	2.09532
Intercept (b)	:	-0.03812
Correlation Coefficient(r)	:	0.99994
Standard Condition Pstd (hpa)	:	1013
I sta (K)	•	298.18
Calibration Condition		
Pa (hpa)	:	1026
Ta(K)	:	288

Res	istance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.546	1.711	58	59.38
2	13 holes	9.0	3.071	1.484	50	51.19
3	10 holes	7.0	2.709	1.311	43	44.02
4	7 holes	4.4	2.147	1.043	34	34.81
5	5 holes	2.4	1.599	0.775	24	24.57

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>37.152</u>

Intercept(b):-4.194

5

Correlation Coefficient(r): 0.9997

Checked by:_____ Magnum Fan

Date: 21/12/2015



SIBATA SCIENTIFIC TECHNOLOGY LTD.

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

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

CALIBRATION CERTIFICATE

Date: May 28, 2015

Equipment Name	:	Digital Dust Indicator, Model LD-3B
Code No.	:	080000-42
Quantity	;	1 unit
Serial No.	:	2Z6240
Sensitivity	:	0.001 mg/m3
Sensitivity Adjustment	:	570CPM
Scale Setting	:	May 25, 2015

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

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

.

Kentaro Togo Overseas Sales Division



-

TEST CERTIFICATE

CUSTOMER : INNOTECH INSTRUMENTATION CO.LTD.

Report No. 15-0798

SIBATA SCIENTIFIC TECHNOLOGY LTD. DATE 26/May /2015

ISSU	VERIFIED BY	APPROVE DY

~

J	y - 2018	25-May	••	DATE	NOI.	CALIBRA'
		2Z6240		BER	NUN	SERIAL
		LD-3B	•••	BER	MUN	MODEL
Indicator	Dust	Digital		ME	NN	PRODUCT

Sy	for on	compa	scale s differe	Stability The ma		Measuring the 3 d	Dust Concentration Count		Calibration standa	Sensitivity Count	Function Test Switch	Testing Category
nthetic Judgment	measurement is repeated three times e minute.)	red with the maximum value.	etting value of the machine and the nce with minimum value are within 5%	aximum value of the sensitivity adjustment		ifferent concentration.	is $\pm 10\%$ accurate to the master under		rd calibration particle	is $\pm 2\%$ accurate to the master by the	, Display, Wiring will nomally function	Judging Standard
					535 CPM	1020 CPM	2079 CPM	813 CPM	Master	Reading of		
Good		OK	1990 1990 1990		524 CPM	994 CPM	1998 CPM	814 CPM	Instrument	Reading of this	ОК	Judgment
					-2.1 %	-2.5 %	-3.9 %	+0.1 %		Correction		
			23 °C	Temperature	Test atr	010	770	nerero	Defense	Inspect		
			Humidity	nosphere	CT MI	CDM	(C)ANTRA &		ion chart			

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor	
Manufacturer:	Sibata LD-3B	
Serial No.	2Z6240	
Equipment Ref:	Nil	
Job Order	HK1520162	

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	13 May 2015

Equipment Verification Results:

Testing Date:

22 & 23 June 2015

0.0014

0.9863

24 June 2015

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr18min	12:45 ~ 15:03	27.9	1003.2	0.010	1171	8.5
2hr25min	15:08 ~ 17:33	27.9	1003.2	0.023	2290	15.7
2hr43min	9:45 ~ 12:28	27.3	1003.9	0.014	1908	11.7

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) <u>569 (CPM)</u> 574 (CPM)



Remarks:

Date of Issue

Slope (K-factor):

Correlation Coefficient

1. Strong Correlation (R>0.8)

Linear Regression of Y or X

2. Factor 0.0014 should be apply for TSP monitoring

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





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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma	ar 24, 2015	Rootsmeter	s/n 0	438320	Ta (K) -	292
Operator	Tisch	Orifice I.I)	2454	Pa (mm) -	756.92
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4460	3.2	2.00
2	NA	NA	1.00	1.0300	6.4	4.00
3	NA	NA	1.00	0.9180	7.9	5.00
4	NA	NA	1.00	0.8780	8.7	5.50
5	NA	NA	1.00	0.7240	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0121	0.6999	1.4258	0.995	8 0.6886 6 0.9627 95 1.0779 95 1.1258 93 1.3582	0.8784
1.0078	0.9785	2.0163	0.991		1.2422
1.0057	1.0955	2.2543	0.989		1.3888
1.0047	1.1443	2.3644	0.988		1.4566
0.9994	1.3805	2.8515	0.983		1.7568
Qstd slo	ope (m) =	2.09532	Qa s	slope (m) =	1.31205
intercep	ot (b) =	-0.03812	inter	ccept (b) =	-0.02349
coeffici	ent (r) =	0.99994	coeff	icient (r) =	0.99994
y axis =	= SORT [H2O (Pa/760) (298/Ta))] yaxi	s = SQRT[H20(Ta/Pa)]

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



Appendix H. Graphical Plots of the Monitoring Results

363512/ENP/ENL/05/02/1 January 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx

26

			0	Conc. (µg/m	³)	Action	Limit		
Date	Weather Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	Level (ug/m ³)	Level (ug/m ³)	Min	Max
03-Dec-15	Cloudy	10:40 - 15:00	57	64	61	273.7	500		
09-Dec-15	Cloudy	10:40 - 15:00	80	86	92	273.7	500		
15-Dec-15	Cloudy	10:20 - 15:00	70	59	64	273.7	500	F7	1 / 1
21-Dec-15	Cloudy	10:30 - 16:00	64	59	71	273.7	500	57	141
24-Dec-15	Cloudy	8:02 - 11:02	112	134	101	273.7	500		
30-Dec-15	Cloudy	10:30 - 16:00	141	125	119	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	³)	Action	Limit		
	Weather					Level	Level		
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m³)	(µg/m³)	Min	Max
03-Dec-15	Cloudy	10:52 - 15:10	70	74	80	274.2	500		
09-Dec-15	Cloudy	10:52 - 15:10	82	88	93	274.2	500		
15-Dec-15	Cloudy	10:30 - 15:10	94	87	77	274.2	500	70	170
21-Dec-15	Cloudy	10:41 - 16:10	81	79	100	274.2	500	70	1/2
24-Dec-15	Cloudy	8:12 - 11:12	106	98	125	274.2	500		
30-Dec-15	Cloudy	10:42 - 16:10	125	149	172	274.2	500		

Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)

Sta	rt	Finis	sh	Filter W	eight (g)	Elapse Rea	d Time ding	Sampling	Flov	w Rate (m ³ /	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
03-Dec-15	10:42	04-Dec-15	10:42	2.7688	2.8641	18768.38	18792.38	24	1.2	1.2	1.2	55	Cloudy	143.6	260
09-Dec-15	10:42	10-Dec-15	10:42	2.7874	2.872	18792.38	18816.38	24	1.2	1.2	1.2	49	Cloudy	143.6	260
15-Dec-15	10:22	16-Dec-15	10:22	2.7898	2.8779	18816.38	18840.38	24	1.23	1.23	1.23	50	Cloudy	143.6	260
21-Dec-15	10:32	22-Dec-15	10:32	2.7837	2.8944	18840.38	18864.38	24	1.23	1.23	1.23	63	Cloudy	143.6	260
24-Dec-15	08:00	25-Dec-15	08:00	2.8088	2.9119	18864.38	18888.38	24	1.23	1.23	1.23	58	Cloudy	143.6	260
30-Dec-15	10:32	31-Dec-15	10:32	2.8197	2.9221	18888.38	18912.38	24	1.23	1.23	1.23	58	Cloudy	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)

Sta	rt	Fini	sh	Filter W	eight (g)	Elapse Rea	ed Time ding	Sampling	Flov	w Rate (m ³ /	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
03-Dec-15	10:56	04-Dec-15	10:56	2.7584	2.9501	14471.57	14495.57	24	1.24	1.24	1.24	107	Cloudy	151.1	260
09-Dec-15	10:55	10-Dec-15	10:55	2.7925	2.9013	14495.57	14519.57	24	1.24	1.24	1.24	61	Cloudy	151.1	260
15-Dec-15	10:35	16-Dec-15	10:35	2.797	2.9242	14519.57	14543.57	24	1.24	1.24	1.24	71	Cloudy	151.1	260
21-Dec-15	10:44	22-Dec-15	10:44	2.7918	2.9696	14543.57	14567.57	24	1.24	1.24	1.24	100	Cloudy	151.1	260
24-Dec-15	08:15	25-Dec-15	08:15	2.7905	2.8991	14567.57	14591.57	24	1.24	1.24	1.24	61	Cloudy	151.1	260
30-Dec-15	10:46	31-Dec-15	10:46	2.8133	2.9277	14591.57	14615.57	24	1.24	1.24	1.24	64	Cloudy	151.1	260

Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Appendix I. Meteorological Data Extracted from Hong Kong Observatory

363512/ENP/ENL/05/02/1 January 2016 \\mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report\(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx

27

Table I-1: Extract of Meteorological Observations for King's Park Automatic Weather Station, December 2015





Wind Direction:



Wind Speed:

01 02 03 04 05 06 07 08 09 10 11 12

03/12/2015



香港時間(時) Hong Kong Time (Hour)

13 14 15 16 17 18 19

20 21 22 23 00

00:50

04/12/2015

© 香港天文 含 Hong Kong Observatory



Pressure:



Wind Direction:



Wind Speed:




Pressure:



Wind Direction:



Wind Speed:





Pressure:



Wind Direction:



Wind Speed:





Pressure:



Wind Direction:









Pressure:



Wind Direction:



Wind Speed:





Appendix J. Waste Flow table

28

Table J-1 Monthly Waste Flow Table

		Actual Quantities of Inert C&D Materials (excluding ecavated waste) (tonnes) e.g. broken concrete					Ac	Actual Quantities of Non-inert C&D Waste (tonnes)			
Month	Excavated Waste (tonnes)	(a) Total inert C&D material generated (a) = (b) + (c) + (d) + (e)	(b) Reused in contract	(c) Reused in other projects	(d) Sent to recycling company	(e) Disposed to public fill	(f) Recycled scrap metal	(g) Reused / recycled timber	(h) Chemical waste	(i) Other waste disposed to landfill	(j) Total non-inert C&D material generated (j) = (f) + (g) + (h) + (i)
Nov 2015	46,607.4	0.0	0.0	0.0	0.0	0.0	76.2	0.0	0.0	67.6	143.8
Dec 2015	29,631.5	21.4	0.0	21.4	0.0	0.0	0.0	0.0	1.0	66.0	66.9
Jan 2016											
Feb 2016											
Mar 2016											
Apr 2016											
May 2016											
Jun 2016											
Jul 2016											
Aug 2016											
Sep 2016											
Oct 2016											
Nov 2016											
Dec 2016											
Total	76,238.9	21.4	0.0	21.4	0.0	0.0	76.2	0.0	1.0	133.6	210.7

Note:

1. A total of 21.4 tons of Grouting material were reused in other projects



Appendix K. Environmental Mitigation Measures – Implementation Status

29

Table K-1: Environmental Mitigation Measures Implementation Status

FM&A Bof	Becommendation Measures	Implementation Stage
Air Quality In	npact (Construction)	
2.1	General Dust Control Measures	
	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	\checkmark
2.1	Best Practice For Dust Control	
	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:	
	Good Site Management	
	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 carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Rem
	Disturbed Parts of the Roads	
	 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	\checkmark
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	\checkmark
	Exposed Earth	
	 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. 	N/A
	Loading, Unloading or Transfer of Dusty Materials	

EM&A Ref.	Recommendation Measures	Implementation Stage
	 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	\checkmark
	Debris Handling	
	 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	\checkmark
	 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	1
	Transport of Dusty Materials	
	 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. 	\checkmark
	Wheel washing	
	 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. 	✓
	Use of vehicles	\checkmark
	 The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. 	
	 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	\checkmark
	 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. 	\checkmark
	Site hoarding	
	 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. 	\checkmark
2.1	Best Practicable Means for Cement Works (Concrete Batching Plant)	
	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	
	 Wherever possible the final discharge point from particulate matter arrestment plant, where is not 	\checkmark

_

EM&A Ref.	Recommendation Measures	Implementation Stage
	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	
	Emission Limits	
	 All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	\checkmark
	Engineering Design/Technical Requirements	
	 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 	✓
Noise Impac	t (Construction)	
3.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	
	 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	\checkmark
	 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; 	\checkmark
	 plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; 	\checkmark
	 mobile plant should be sited as far away from NSRs as possible; and 	\checkmark
	 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	\checkmark
3.1	Adoption of Quieter PME	
	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	N/A
3.1	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.	Obs

EM&A Ref.	Recommendation Measures	Implementation Stage
3.1	Use of Noise Enclosure/ Acoustic Shed 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
3.1	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	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
Water Qualit	y Impact (Construction)	
4.1	Construction site runoff and drainage	
	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:	
	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;	Rem
	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.	Obs
	 All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	\checkmark
	 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of 	\checkmark

EM&A Ref.	Recommendation Measures	Implementation Stage
	trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities.	
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	~
	 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 	\checkmark
	 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. 	\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.	✓
	 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. 	N/A
	Barging facilities and activities	
	Recommendations for good site practices during operation of the proposed barging point include:	
	 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; 	N/A
	 Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation: 	N/A
	 All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of 	N/A

FM&A Ref	Becommendation Measures	Implementation Stage
	material; and	
	 Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A
4.1	Sewage effluent from construction workforce	
	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	4
4.1	General construction activities	
	 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. 	\checkmark
	 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. 	~
Waste Mana	gement Implications (Construction)	
6.1	Good Site Practices	
	Recommendations for good site practices during the construction activities include:	
	 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 	\checkmark
	 Training of site personnel in proper waste management and chemical handling procedures 	\checkmark
	 Provision of sufficient waste disposal points and regular collection of waste 	\checkmark
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	\checkmark
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	\checkmark
	 Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓
6.1	Waste Reduction Measures	

EM&A Ref.	Recommendation Measures	Implementation Stage
	Recommendations to achieve waste reduction include:	
	 Sort inert C&D material to recover any recyclable portions such as metals 	\checkmark
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	\checkmark
	 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 	\checkmark
	 Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	./
	 Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste 	v √
6.1	Inert and Non-inert C&D Materials	
	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	N/A
	 The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	\checkmark
	 Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	\checkmark
	 The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. 	\checkmark
	In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.	✓
6.1	Chemical Waste	

EM&A Ref.	Recommendation Measures	Implementation Stage
	If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Rem/Obs
	 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. 	Rem/ Obs
6.1	General Refuse	
	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.	✓
Land Conta	mination (Construction)	
7.1	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.	
	The following measures are proposed for excavation and transportation of contaminated material:	
	 To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 	N/A
	 Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; 	N/A
	 Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	N/A
	The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was	

EM&A Ref.	Recommendation Measures	Implementation Stage
	carried out;	N/A
	 Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust 	
	emissions and/or release of contaminated wastewater;	N/A
	I ruck bodies and taligates should be sealed to stop any discharge;	N/A
	 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; 	N/A
	 Speed control for trucks carrying contaminated materials should be exercised; 	N//A
	 Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and 	N/A N/A
	 Maintain records of waste generation and disposal quantities and disposal arrangements 	
		N/A
Ecological	mnact (Construction)	14/74
Loologioui i	No mitigation mascura is required	
Landacana		
Landscape		
Table 9.1 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A
Table 9.1	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree,	N/A
(CM2)	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.	
Table 9.1 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A
Table 9.1 (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
Table 9.1 (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
Table 9.1	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage
(CM6)		
Table 9.1 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A
Table 9.1 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	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
Table 9.2	Use of decorative screen hoarding/boards	\checkmark
(MCP1)		
Table 9.2	Early introduction of landscape treatments	N/A
(MCP2)		
Table 9.2	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A
(MCP3)		
Table 9.2	Control of night time lighting	✓
(MCP4)		
Table 9.2	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and	N/A
(MCP5)	soften the hard edges of the structures.	

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder





30

Appendix L. Cumulative Statistics on Complaints, Notifications of Summons and Successful **Prosecutions**

363512/ENP/ENL/05/02/1 January 2016 \mottmac\Project\Hong Kong\ENL\PROJECTS\363512 WKCD M+ Superstructure\05 Deliverables\02 Monthly EM&A Report(2) Monthly EM&A Report for Dec 2015\Rev. 1\Monthly EM&A Report for Dec 2015_v1.docx

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) to the end of the reporting month and are summarized in the **Table L-1** below.

Table L-1:	Statistics for	complaints,	notifications	of	summons	and	successful	prosecutions
------------	----------------	-------------	---------------	----	---------	-----	------------	--------------

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