





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

February 2016



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

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Conclusions

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## **Executive Summary**

In October 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works 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 January to 31 January 2016. Construction phase weekly site inspections were carried out on 8, 14, 21 and 28 January 2016 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 8, 14, 21 and 28 January 2016 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**

No environmental complaint was recorded in the reporting month.

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

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

#### **Future Key Issues**

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

- Pile Cap Construction
- Site formation
- Concrete pouring
- Excavation
- Formworks installation
- Slab construction
- Underground drainage works

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 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 January to 31 January 2016. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

#### 1.2 Project Organisation

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

#### 1.3 Environmental Status in the Reporting Period

During the reporting period, construction works of the Project undertaken include:

- Pile Cap Construction
- Site formation
- Concrete pouring
- Excavation

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- Rebar /earthing installation
- Formworks installation
- Slab construction
- Underground drainage works

The captioned project involves part of the Schedule 2 Designated Project (DP), .i.e. "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). Currently, only excavation works was being carried out for the M+ Museum. The construction of the underpass will not commence until the excavation works reach its boundary. The schedule 2 DP has not been physically commenced.

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 4.3** on the status of the environmental licenses.

#### 1.4 Summary of EM&A Requirements

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

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

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies	
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days	
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	
	24-Hour TSP	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	$L_{\text{eq}}$ , 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	

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

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with details has been submitted to EPD on 20 January 2016 for consideration and futher comments was received on 29 January 2016. 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, which is at the same location as that of baseline monitoring for consistency. No management approval is required at the ground floor for conducting the air monitoring and a secure electricity supply is available there. 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. As there is no alternative locations for noise monitoring station identified, so liaision with the management office of the International Commerce Centre are in progress for granting access to conduct noise monitoring at the podium floor which is free from screening to the construction activities . 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: Air Quality Monitoring Parameters, Frequency and Duration

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

#### 2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2 were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1** 

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location			
AM1	International Commerce Centre (ICC)			
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	
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.

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All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.</p>

#### **Field Monitoring Procedures**

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m<sup>3</sup>/min. The range specified in the EM&A Manual was between 0.6-1.7 m<sup>3</sup>/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.
- The initial elapsed time was recorded.
- At the end of sampling, the sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

#### **Maintenance and Calibration**

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

#### 1-hour TSP Monitoring

#### **Field Monitoring**

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

Turn the power on.

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- 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

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1 was set up. However, 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.

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

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

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



## 3 Monitoring Results

#### 3.1 Impact Monitoring

Construction impact monitoring for air quality 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**.

Table 3.1: Summary of 1-hour TSP monitoring results

	Mandana		1-hour TSP (µg/m³)				Action	Limit
Monitoring Station	Monitoring Date	Start Time	1st Result	2nd Result	3rd Result	Range (µg/m³)	Level (µg/m³)	Level (µg/m³)
	05-Jan-16	10:30	78	85	91			
	11-Jan-16	10:20	78	86	95			
AM1	15-Jan-16	8:00	80	64	71	51-97	273.7	500
	21-Jan-16	10:30	78	85	97			
	27-Jan-16	10:43	55	51	62			
	05-Jan-16	10:45	80	87	94			
	11-Jan-16	10:32	80	88	98			
AM2	15-Jan-16	8:12	65	81	61	61-98	274.2	500
	21-Jan-16	10:40	80	86	96			
	27-Jan-16	10:55	81	73	70			

#### 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**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
	05-Jan-16	10:33	50			
A N 4 4	11-Jan-16	10:22	48			
AM1	15-Jan-16	08:02	49	45-50	143.6	260
	21-Jan-16	10:28	45			
	27-Jan-16	10:45	48			
AN40	05-Jan-16	10:43	58	40.70	454.4	000
AM2 —	11-Jan-16	10:36	56	43-72	151.1	260



Monitoring Station	Monitoring Date	Start Time	Monitoring Results (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
	15-Jan-16	08:15	56			
	21-Jan-16	10:38	43			
	27-Jan-16	10:58	72			

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

#### 3.3 Noise Monitoring

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 8 and 21 January 2016 during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

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



## 4 Environmental Site Inspection

#### 4.1 Site Inspection

Construction phase weekly site inspections were carried out on 8, 14, 21 and 28 January 2016. The joint site inspection with IEC, ET, ER and Contractor was held on 8 January 2016. 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**.

Table 4.1: Summary of Site Inspections and Recommendations

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
31 Dec 2015	Waste management	The contractor was reminded to clean up the drip tray of chemical storage for wastewater treatment.	The drip tray of chemical storage was cleaned up.	4 Dec 2016
31 Dec 2015	Waste management	The contractor was reminded to provide locks for chemical waste storage.	The contractor has provided locks for chemical waste storage.	4 Dec 2016
8 Jan 2016	Air quality	The contractor was reminded to enhance water spraying frequency for unpaved area.	The contractor has enhanced water spraying frequency for unpaved area.	14 Jan 2016
8 Jan 2016	Water quality	Overflow was observed at wetsep. The contractor was reminded to review the capacity of wetsep or consider other measures to solve the overflow problem. The contractor was also reminded to remove all stagnant water in site area including area near hoarding.	No overflow was observed. All stagnant water has been removed. The contractor is arranging to install one more wetsep and a new drainage plan to further improve the condition.	21 Jan 2016
8 Jan 2016	Air quality	The stockpile was not well covered. The contractor was reminded to well cover the stockpile to reduce dust impact.	All the stockpile has been applied with dust suppression spraying.	15 Jan 2016
21 Jan 2016	Waste managment	Chemicals without drip tray were observed. The contractor was reminded to provide drip trays for chemicals.	The contractor has provided drip trays for the chemicals	22 Jan 2016
28 Jan 2016	Water quality/ Air quality	Some of the dust supression spraying of the stockpile was found outside the boundary of M66. The contractor was reminded to ensure dust supression spraying is effective in covering the stockpile well and remove the spraying outside M66.	Follow-up status will be provided in the next reporting month.	On-going
28 Jan 2016	Waste management	Oil was observed on the ground because of overflow of drip tray under heavy rain. The contractor was reminded to remove the chemical waste in drip tray more frequently and remove the oil overflowed from the drip tray.	Follow-up status will be provided in the next reporting month.	On-going



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

The 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, 21,077.4 ton of excavated waste was disposed. The details of disposal and reuse of excavated waste was shown in **Table 4.2**, while 23.2 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. 0 ton of inert C&D materials was reused in other projects. 0 ton of chemical wastes was collected by licensed contractors in the reporting period.

Table 4.2: Disposal/ Reuse/Storage of Excavated Waste in the Reporting Month

Site of Disposal/ Reuse/ Storage	Quantities (tonnes)
Fill Bank at Tseung Kwan O Area 137	149.4
Green Valley	8,528
Design and Construction of Kai Tak Cable Tunnel, CLP	448
MTR Contract 1002 Whampoa Station and Overrun Tunnel	5,600
M+ Stockpile (M66, storage site near M+)	2,880
Hsin Chong Stockpile (Storage site near M+)	3,472

Note: 16 tonnes per truckload is assumed.

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 4.3**.

Table 4.3: Status of Environmental Submissions, Licenses and Permits

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	iction Waste Disposal			
7023393	13-Oct-15		Account Active	



Permit / License No.	Valid	Period		
/ Notification / Reference No.	From	То	Status	Remarks
Construction Noise Per	mit			
GW-RE1220-15	04-Dec-15	03-Jun-16	Valid	
Wastewater Discharge	License			
WT00022693-2015	12-Nov-15	30-Nov-20	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 in drip trays should be frequently removed.
- 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.

#### **Water Quality**

- 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.
- Dust suppression spraying for stockpile should be applied appropriately to avoid any leakage of spraying from the site.



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

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

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

#### 5.2 Record on Environmental Complaints Received

No environmental complaint was received this month. 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
- Site formation
- Concrete pouring
- Excavation
- Rebar /earthing installation
- Formworks installation
- Slab construction
- Underground drainage works

#### **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.

No 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.

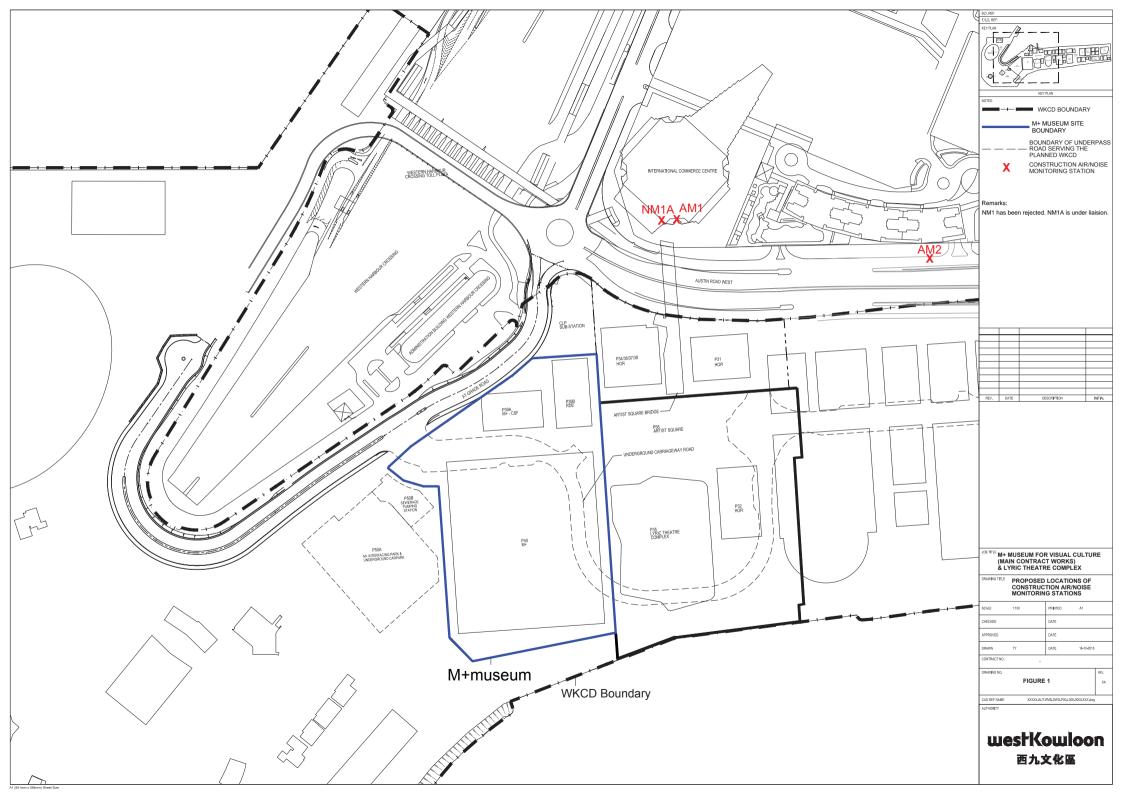
#### 7.2 Recommendations

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.

## M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



## Figure 1 Site Layout Plan and Monitoring Stations



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



## **Appendices**

Appendix A.	Project	Organis	ation
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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

## M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



## Appendix A. Project Organisation

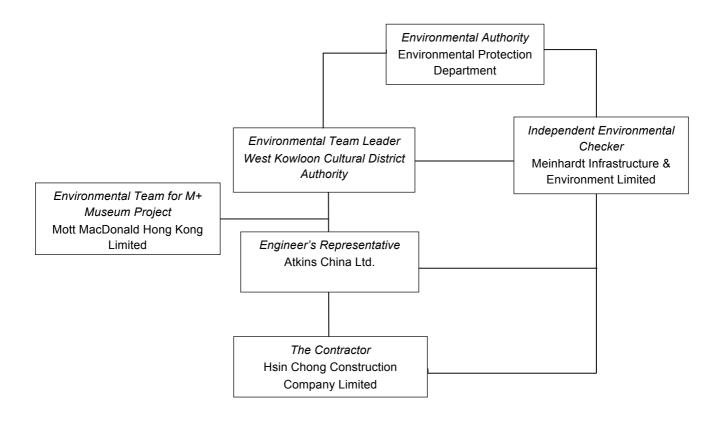


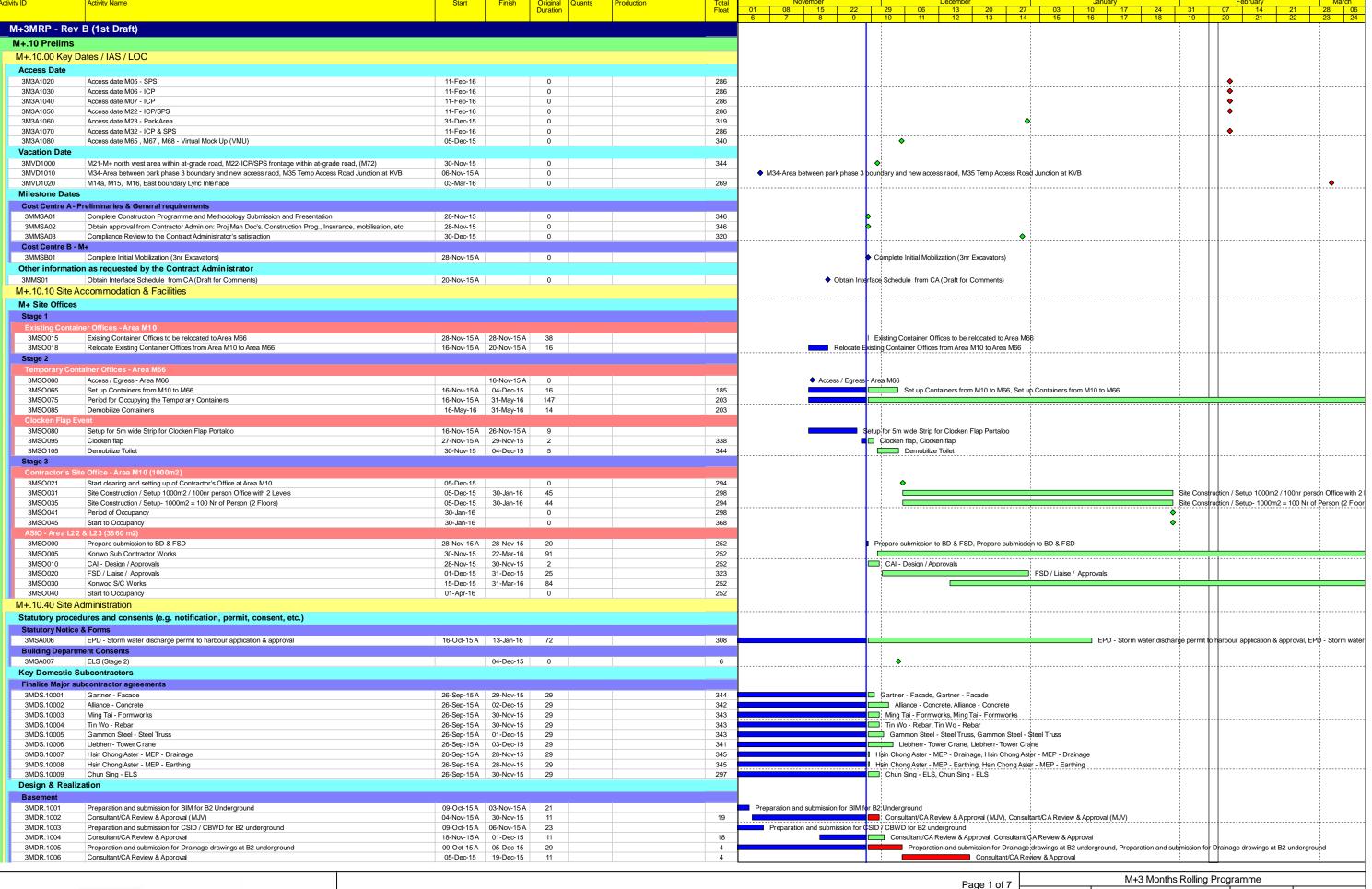
Table B-1: Contact information

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

## M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016

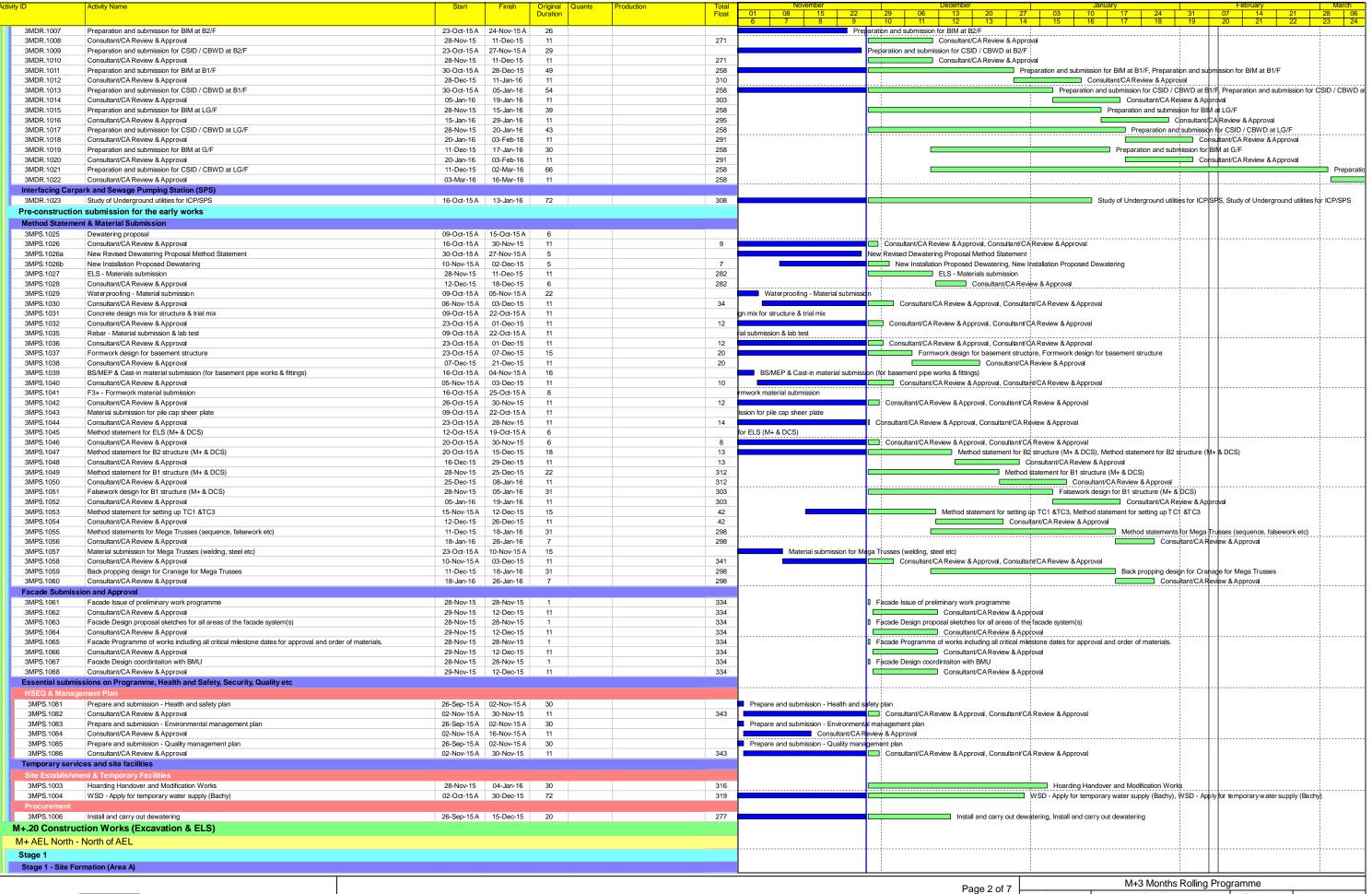


## Appendix B. Tentative Construction Programme





M+3 Months Rolling Programme						
Date	Revision	Checked	Approved			
22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett			
02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett			





Revision B (1st Drait)

M+3 Months Rolling Programme Date Revision Checked Approved 22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett 02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

M+ 3 Months	Rolling	Programme	(3MRP)
Ro	vicion R	(1ct Draft)	

	Activity Name	Start	Finish	Original Duration	Quants	Production	Total Float	November   December   January   February   01   08   15   22   29   06   13   20   27   03   10   17   24   31   07   14   21   2
								6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 2
3MSS.1000	Dewatering Commence	02-Dec-15		0			7	<u></u>
3MSS.1000.1	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-H/7'-6') - Portion A1		14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL C'-H/7-6)   Porton A1
3MSS.1000.11	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1		14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 battered slope (GL A'-J/4'-6') - Portion A1
3MSS.1000.21	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2	04-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2
3MSS.1000.31	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL B'-C'/2-4') - Portion A2	05-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd tq +1.4mPD for B2 battered slope (GL B'-C'/2-4') - Portion A2
MSS.1000.41	Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C -F /2-4) - Portion A3	06-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL C'-F'/2-4) - Portion A3
MSS.1000.51	Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL I'-E/6'-4) - Porton A3	09-Nov-15 A	14-Nov-15 A	4				Excavate +5.0Mpd td +1.8mPD for B2 battered slope (GL I'-E/6'-4) - Portion A3
MSS.1002	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GLC'-H/7'-6') - Portion A1	05-Dec-15	10-Dec-15	5	5,475m3	2 machines @ 700m3/day	0	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C'-H/7-6') - Portion A1
MSS.1003	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL A'-J'/4'-6') - Portion A1	08-Dec-15	12-Dec-15	5	4,215m3	2 machines @ 700m3/day	0	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL A'-J/4'-6') - Portion A1
				-			-	
MSS.1004	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2	10-Dec-15	15-Dec-15	5	4,073m3	2 machines @ 700m3/day	10	Excavate +1.8mPD to _2,30mPD for B2 Slab Formation Level (GL C'-G'/2-7') - Portion A2
MSS.1005	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL B-C//2-4) - Portion A2	12-Dec-15	17-Dec-15	5	1,697m3	2 machines @ 700m3/day	10	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	15-Dec-15	19-Dec-15	5	1,365m3	2 machines @ 700m3/day	10	Excavate +1.8mPD to _2.30mPD for B2 Slab Formation Level (GL C F //2-4) - Portion A3
MSS.1007	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL I-E/6-4) - Portion A3	16-Dec-15	21-Dec-15	5	3,996m3	2 machines @ 700m3/day	19	Excavate +1.8mPD to _2.30mPD for B2 battered slope (GL I - E/6 4) - Pontion A3
ige 1 - Pile Ca	p Construction (Area A)							
ortion A1								
MSS.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)	12-Dec-15	17-Dec-15	4	140m3	1 machine @ 190m3/day	0	] -     -     -
3MSS.1011	Excavation works for Pile - CPC 40 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 40 (07)
3MSS.1012	Excavation works for Pile -CPC 44 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile -CPC 44 (07)
3MSS.1013	Excavation works for Pile -CPC 41 (07)	12-Dec-15	15-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile -CPC 41 (07)
3MSS.1014	Excavation works for Pile - CPC 43 (07)	15-Dec-15	17-Dec-15	2	24.5m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 43 (07)
3MSS.1015	Excavation works for Pile - CPC 42 (07)	15-Dec-15	17-Dec-15	2	24.5m3		0	Excavation works for Pile - CPC 42 (07)
	` '					1 machine @ 190m3/day		
3MSS.1016	Excavation works for Pile - CPC 42-2 (03)	16-Dec-15	17-Dec-15	1	14.34m3	1 machine @ 190m3/day	0	Excavation works for Pile - CPC 42-2 (03)
3MSS.1017	Rebar Installation for Pile cap- Portion A1	15-Dec-15	18-Dec-15	3	123T	5 men @ 0.9T/man/day	0	
3MSS.1018	Rebar Installation - CPC 40 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	Rebar Installation - CPC 40 (07)
3MSS.1019	Rebar Installation - CPC 44 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 44 (07)
3MSS.1020	Rebar Installation - CPC 41 (07)	15-Dec-15	16-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 41 (07)
3MSS.1020	Rebar Installation - CPC 43 (07)	17-Dec-15	18-Dec-15	1	22.05T		0	Rebar Installation - CPC 43 (07)
		-					-	
3MSS.1022	Rebar Installation - CPC 42 (07)	17-Dec-15	18-Dec-15	1	22.05T		0	■ Rebar Installation - CPC 42 (07)
3MSS.1023	Rebar Installation - CPC 42-2 (03)	17-Dec-15	18-Dec-15	1	12.90T		0	Rebar Installation - CPC 42-2 (03)
3MSS.1024	Pile cap side formworks - Portion A1	16-Dec-15	21-Dec-15	4	162m2	2 men @ 22m2/d/man	0	
3MSS.1025	Pile cap side formwork - CPC 40 (07)	16-Dec-15	18-Dec-15	2	28m3		0	Pile cap side formwork - CPC 40 (07)
3MSS.1026	Pile cap side formwork - CPC 44 (07)	16-Dec-15	18-Dec-15	2	28m3		0	■ File cap side formwork < CPC 44 (07)
							-	
3MSS.1027	Pile cap side formwork - CPC 41 (07)	16-Dec-15	18-Dec-15	2	28m3		0	Pile cap side formwbrk - CPC 41 (07)
3MSS.1028	Pile cap side formwork - CPC 43 (07)	18-Dec-15	21-Dec-15	2	28m3		0	Pile cap side fdrmwork - CPC 43 (07)
3MSS.1029	Pile cap side formwork - CPC 42 (07)	18-Dec-15	21-Dec-15	2	28m3		0	Pile cap side formwork - CPC 42 (07)
3MSS.1030	Pile cap side formwork - CPC 42-2 (03)	18-Dec-15	21-Dec-15	2	21.44m3		0	Pile cap side formwork - CPC 42-2 (03)
3MSS.1031	Portion A1 concrete pouring for Pile cap	18-Dec-15	23-Dec-15	3	140m3		0	
				-			-	
3MSS.1032	concrete pouring - CPC 40 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring : CPC 40 (07)
3MSS.1033	concrete pouring - CPC 44 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring - CPC 44 (07)
3MSS.1034	concrete pouring - CPC 41 (07)	18-Dec-15	19-Dec-15	1	24.5m3		2	concrete pouring - CPC 41 (07)
3MSS.1035	concrete pouring - CPC 43 (07)	21-Dec-15	23-Dec-15	1	24.5m3		0	concrete pouring - CPC 43 (07)
3MSS.1036	concrete pouring - CPC 42 (07)	21-Dec-15	23-Dec-15	1	24.5m3		0	concrete pouring - CPC 42 (07)
		-	23-Dec-15		14.34m3		0	
3MSS.1037	concrete pouring - CPC 42-2 (03)	21-Dec-15	23-Dec-15		14.541115		U	concrete pduring - CPC 42-2 (03)
Portion A2	Level Foresisting for Dile annual (2.2 ann DD) (OL OLOD TA Destina AC CDC 40(0) 50(0) DC 05(0) 00(4) 07(4) 00(	40 D 45	00 D 45	0	040	4	40	
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( Excavation works for Pile - CPC 49 (02)	19-Dec-15	23-Dec-15	1	64m3	1 machine @ 190m3/day 1 machine @ 190m3/day	10	Excavation works for Pile - CPC 49 (02)
3MSS.1039	. ,	19-Dec-15	21-Dec-15		5.6m3	,		
3MSS.1040	Excavation works for Pile - CPC 50 (02)	19-Dec-15	21-Dec-15	1	5.6m3	1 machine @ 190m3/day	10	Excavation works for Pile - CPC 50 (02)
3MSS.1041	Excavation works for Pile - PC 05 (03)	19-Dec-15	21-Dec-15	1	14.34m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 05 (03)
3MSS.1042	Excavation works for Pile - PC 08 (02)	21-Dec-15	23-Dec-15	1	5.6m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 08 (02)
3MSS.1043	Excavation works for Pile - PC 06 (04)	21-Dec-15	23-Dec-15	1	15.68m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 06 (04)
3MSS.1044	Excavation works for Pile - PC 07 (04)	21-Dec-15	23-Dec-15	1	15.68m3	1 machine @ 190m3/day	10	Excavation works for Pile - PC 07 (04)
					44T		10	Excavation works for the 1 C or (04)
3MSS.1045	Rebar Installation for Pile cap- Portion A2	21-Dec-15	24-Dec-15	2	_	5 men @ 0.9T/man/day		l
3MSS.1046	Rebar Installation - CPC 49 (02)	21-Dec-15	23-Dec-15	1	5.04T		10	Rebar Installation - CPC 49 (02)
3MSS.1047	Rebar Installation - CPC 50 (02)	21-Dec-15	23-Dec-15	1	5.04T		10	Rebar Installation - CPC 50 (02)
3MSS.1048	Rebar Installation - PC 05 (03)	21-Dec-15	23-Dec-15	1	12.9T		10	Rebar Installation - PC 05 (03)
3MSS.1049	Rebar Installations - PC 08 (02)	23-Dec-15	24-Dec-15	1	5.04T		10	☐ Rebar Installations - PC 08 (02)
3MSS.1050	Rebar Installation - PC 06 (04)	23-Dec-15	24-Dec-15	1	14.11T		10	Rebar Installation - PC 06 (04)
3MSS.1051	Rebar Installation - PC 07 (04)	23-Dec-15	24-Dec-15	1	14.11T	-	10	□ Rebar Installation - PC 07 (04)
3MSS.1052	Pile cap side formworks - Portion A2	23-Dec-15	28-Dec-15	2	114m2	2 men @ 22m2/d/man	10	
3MSS.1053	Pile cap side formworks - CPC 49 (02)	23-Dec-15	24-Dec-15	1	15.2m2		10	☐ Pile cap side formworks - CPC 49 (02)
	Pile cap side formworks - CPC 50 (02)	23-Dec-15	24-Dec-15	1	15.2m2		10	☐ Pile cap side formworks - CPC 50 (02)
3MSS.1054	Pile cap side formworks - PC 05 (03)	23-Dec-15	24-Dec-15	1	21.44m2		10	□ Pile cap side formworks - PC 05 (03)
	i no sup side formittorio i i o oo (oo)	24-Dec-15		1			10	Pile cap side formworks - PC 03 (03)
3MSS.1055	Pilo can cido formularko PC 09 (03)		28-Dec-15	1	15.2m2	-		<b>↓</b>
3MSS.1055 3MSS.1056	Pile cap side formworks - PC 08 (02)		28-Dec-15	1	22.4m2		10	Pile cap side formworks - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057	Pile cap side formworks - PC 06 (04)	24-Dec-15		1	22.4m2		10	Pile cap side formworks - PC 07 (04)
3MSS.1055 3MSS.1056			28-Dec-15				10	
3MSS.1055 3MSS.1056 3MSS.1057	Pile cap side formworks - PC 06 (04)	24-Dec-15		1	64M3			Concrete Pouring - CPC 49 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring	24-Dec-15 24-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15	1			10	© Concrete Pouring - CPC 50 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3			
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3 5.6m3		10	→
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1057 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3		10 10	Concrete Pouring - PC 05 (03)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1	5.6m3 5.6m3		10	→
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1057 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3		10 10	Concrete Pouring - PC 05 (03)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1	5.6m3 5.6m3 14.34m3 5.6m3		10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1064	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3		10 10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02) □ Concrete Pouring - PC 06 (04)
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3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1064 3MSS.1065	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04) Concrete Pouring - PC 07 (04) Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	28-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15 29-Dec-15	1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3		10 10 10 10 10	□ Concrete Pouring - PC 05 (03) □ Concrete Pouring - PC 08 (02) □ Concrete Pouring - PC 06 (04)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1063 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04)  Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 - PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15	28-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 29-Dec·15 24-Dec·15 24-Dec·15	1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 46m3 5.6m3	1 machine @ 190m3/day	10 10 10 10 10 10 22 17	Concrete Pouring - PC 05 (03)  Concrete Pouring - PC 08 (02)  Concrete Pouring - PC 06 (04)  Concrete Pouring - PC 07 (04)
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3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1070 3MSS.1070 3MSS.1070 3MSS.1072 3MSS.1072 3MSS.1072 3MSS.1073	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04)  Concrete Pouring - PC 07 (04)  Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 17 (01)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15	28-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 29-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 15.68m3 5.6m3 5.6m3 25m3 25m3 2m3 2m3 41T 5.04T	1 machine @ 190m3/day 1 machine @ 190m3/day	10 10 10 10 10 10 10 22 17 17 17 22 22 22 18	Concrete Pouring - PC 05 (03)   Concrete Pouring - PC 08 (02)   Concrete Pouring - PC 06 (04)   Concrete Pouring - PC 07 (04)   Excavation works for Pile - PC 21 (02)   Excavation works for Pile - PC 33 (02)   Excavation works for Pile - PC 20 (07)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 18 (01)   Excavation works for Pile - PC 17 (01)
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3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1068 3MSS.1070 3MSS.1070 3MSS.1070 3MSS.1071	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04)  Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 17 (01) Rebar Installation - Portion A3 Rebar /Earthing Installation - PC 21 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15	28-Dec 15 29-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 5 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 15.68m3 5.6m3 5.6m3 25m3 25m3 2m3 2m3 41T 5.04T	1 machine @ 190m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	10 10 10 10 10 10 10 22 17 17 17 22 22 22 18	Concrete Pouring - PC 05 (03)   Concrete Pouring - PC 08 (02)   Concrete Pouring - PC 06 (04)   Concrete Pouring - PC 07 (04)   Excavation works for Pile - PC 21 (02)   Excavation works for Pile - PC 33 (02)   Excavation works for Pile - PC 20 (07)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 18 (01)   Excavation works for Pile - PC 17 (01)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1069 3MSS.1070 3MSS.1070 3MSS.1071 3MSS.1072 3MSS.1074 3MSS.1074 3MSS.1076 3MSS.1076	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04)  Local Excavation for Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 - PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 20 (07) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 17 (01) Rebar Installation - Portion A3 Rebar /Earthing Installation - PC 21 (02) Rebar Installation - PC 30 (02) Rebar Installation - PC 30 (02) Rebar Installation - PC 30 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15	28-Dec 15 29-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1 5 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 5.6m3 5.6m3 25m3 25m3 2m3 2m3 41T 5.04T 5.04T 22.05T	1 machine @ 190m3/day 5 men @ 0.9T/man/day -dodo-	10 10 10 10 10 10 10 10 17 17 22 22 22 22 18 17 17	Concrete Pouring - PC 05 (03)   Concrete Pouring - PC 08 (02)   Concrete Pouring - PC 06 (04)   Concrete Pouring - PC 07 (04)   Excavation works for Pile - PC 21 (02)   Excavation works for Pile - PC 33 (02)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 18 (01)   Excavation works for Pile - PC 17 (01)   Repar /Earthing Installation - PC 21 (02)   Rebar Installation - PC 33 (02)
3MSS.1055 3MSS.1056 3MSS.1057 3MSS.1058 3MSS.1059 3MSS.1060 3MSS.1061 3MSS.1062 3MSS.1063 3MSS.1064 3MSS.1065 Portion A3 3MSS.1066 3MSS.1066 3MSS.1067 3MSS.1070 3MSS.1071 3MSS.1071 3MSS.1073 3MSS.1073 3MSS.1074 3MSS.1076	Pile cap side formworks - PC 06 (04) Pile cap side formworks - PC 07 (04) Portion A2 concrete pouring Concrete Pouring - CPC 49 (02) Concrete Pouring - CPC 50 (02) Concrete Pouring - PC 05 (03) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 08 (02) Concrete Pouring - PC 07 (04)  Local Excavation For Pile caps (-3.3mPD) - (GL C'-F'/2-4) - Portion A3 -PC17(1),18(1),19(2),20(7),21(2),33(2) Excavation works for Pile - PC 21 (02) Excavation works for Pile - PC 33 (02) Excavation works for Pile - PC 19 (02) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 18 (01) Excavation works for Pile - PC 17 (01) Rebar Installation - PC 18 (102) Rebar Installation - PC 33 (02) Rebar Installation - PC 33 (02)	24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 23-Dec-15 24-Dec-15	28-Dec 15 29-Dec 15 24-Dec 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6m3 5.6m3 14.34m3 5.6m3 15.68m3 15.68m3 5.6m3 5.6m3 25m3 25m3 2m3 2m3 2m3 41T 5.04T	1 machine @ 190m3/day 5 men @ 0.9T/man/day -dodo-	10 10 10 10 10 10 10 22 17 17 22 22 22 22 22 18	Concrete Pouring - PC 05 (03)   Concrete Pouring - PC 08 (02)   Concrete Pouring - PC 06 (04)   Concrete Pouring - PC 07 (04)   Concrete Pouring - PC 07 (04)   Excavation works for Pile - PC 21 (02)   Excavation works for Pile - PC 20 (07)   Excavation works for Pile - PC 20 (07)   Excavation works for Pile - PC 19 (02)   Excavation works for Pile - PC 19 (01)   Excavation works for Pile - PC 17 (01)   Repar /Earthing Installation - PC 21 (02)   Rebar Installation - PC 33 (02)



M+3 Months Rolling Programme						
Date	Revision	Checked	Approved			
22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett			
02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett			

	Activity Name	Start	Finish	Original	Quants	Production	Total	November December January February	
				Duration			Float	01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14	
01400 4070	D. 1. (E. d.)   1. d. H. ( DO 40 (04))	04.5.45	00.1.40		1.07		40	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	22 23 24
3MSS.1079	Rebar /Earthing Installation - PC 18 (01)	31-Dec-15	02-Jan-16	1	1.8T	-do-	18	Rebar /Earthing Installation - PC 18 (01)	
3MSS.1081	Rebar Installation - PC 17 (01)	31-Dec-15	02-Jan-16	1	1.8T	-do-	18	Rebar Installation - PC 17 (01)	
3MSS.1082	Pile cap side formworks - Portion A3	28-Dec-15	05-Jan-16	6	91m2	2 men @ 22m2/d/man	17		
3MSS.1083	Pile cap side formworks - PC 21 (02)	28-Dec-15	29-Dec-15	1	15.2m2	-do-	21	☐ Pile cap side formworks - PC 21 (02)	
3MSS.1084	Pile cap side formworks -PC 33 (02)	28-Dec-15	29-Dec-15	1	15.2m2	-do-	21	☐ Pile cap side formworks -PC 33 (02)	
3MSS.1085	Pile cap side formworks -PC 20 (07)	02-Jan-16	05-Jan-16	2	28m2	-do-	17	Pile cap side formworks -PC 20 (07)	
3MSS.1086	Pile cap side formworks -PC 19 (02)	04-Jan-16	05-Jan-16	1	15.2m2	-do-	17	☐ Pile cap side formworks -PC 19 (02)	
3MSS.1087	Pile cap side formworks -PC 18 (01)	04-Jan-16	05-Jan-16	1	8m2	-do-	17	☐ Pile cap side formworks -PC 18 (01)	
3MSS.1088	Pile cap side formworks -PC 17 (01)	04-Jan-16	05-Jan-16	1	8m2	-do-	17	☐ Pile cap side formworks -PC 17 (01)	
3MSS.1089	Portion A3 concrete pouring	05-Jan-16	06-Jan-16	1	46m3		17		
3MSS.1090	Concrete Pouring - PC 21 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 21 (02)	
3MSS.1091	Concrete Pouring - PC 33 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 33 (02)	
3MSS.1092	Concrete Pouring - PC 20 (07)	05-Jan-16	06-Jan-16	1	25m3	-do-	17	☐ Concrete Pouring - PC 20 (07)	
3MSS.1093	Concrete Pouring - PC 19 (02)	05-Jan-16	06-Jan-16	1	5.6m3	-do-	17	☐ Concrete Pouring - PC 19 (02)	!
3MSS.1094	Concrete Pouring - PC 18 (01)	05-Jan-16	06-Jan-16	1	2m3	-do-	17	☐ Concrete Pouring - PC 18 (01)	
3MSS.1095	Concrete Pouring - PC 17 (01)	05-Jan-16	06-Jan-16	1	2m3	-do-	17	□ Concrete Pouring - PC 17 (01)	
Manhole(Type	1,25,19,38,2,14) - Portion A			,		,			
3MSS.1100	Excavation (Type 1) - GL 6'7'-D'E'	19-Dec-15	21-Dec-15	1	5m3	1 machine @ 190m3/day	7	Excavation (Type 1) - GL 6'7'-D'E'	
3MSS.1101	Rebar Installation (Type 1) - GL 6'7'-D'E'	21-Dec-15	23-Dec-15	1	Omo	Timadrinie & Todina/day	7	Rebar Installation (Type 1) - GL 67-D'E'	·
3MSS.1101	Formworks (Type 1) - GL 6/7-D'E'	23-Dec-15	24-Dec-15	1			7	Formworks (Type 1) - GL 67-DE	
				1					
3MSS.1103	Concrete Pouring (Type 1) - GL 6'7'-D'E'	24-Dec-15	28-Dec-15	1	5m2	1 machine @ 1000/	7	Cohcrete Pouring (Type 1) - GL 67'-D'E'	
3MSS.1104	Excavation (Type 25) - GL 6'7'-D'E'	21-Dec-15	23-Dec-15	1	5m3	1 machine @ 190m3/day		Excavation (Type 25) - GL 677-D'E	}
3MSS.1105	Rebar Installation(Type 25) - GL 67'-D'E'	23-Dec-15	24-Dec-15	1			7	Rebar Installation(Type 25) - GL 677-DTE	
3MSS.1106	Formworks (Type 25) - GL 6'7'-D'E'	24-Dec-15	28-Dec-15	1			7	Formworks (Type 25) - GL 67'-D'E'	
3MSS.1107	Concrete Pouring (Type 25) - GL 6'7'-D'E'	28-Dec-15	29-Dec-15	1			7	Concrete Pouring (Type 25) - GL 6'7'-D'E'	
3MSS.1108	Excavation (Type 19) - GL 7'-1/D-'E'	29-Dec-15	30-Dec-15	1	5m3	1 machine @ 190m3/day	13	Excavation (Type 19) - GL 7'-1/D-'E'	
3MSS.1109	Rebar Installation (Type 19) - GL 7'-1/D-'E'	30-Dec-15	31-Dec-15	1			13	Rebar Installation (Type 19) - GL 7'-1/D-'E'	
3MSS.1110	Formworks (Type 19) - GL 7'-1/D-'E'	31-Dec-15	02-Jan-16	1			13	Formworks (Type 19) - GL 7'-1/D-'E'	
3MSS.1111	Concrete Pouring (Type 19) - GL 7'-1/D-'E'	02-Jan-16	02-Jan-16	0			14	I Concrete Pouring (Type 19) - GL 7'-1/D-'E'	
3MSS.1112	Excavation (Type 38) - GL 1/C-'D'	30-Dec-15	31-Dec-15	1	5m3	1 machine @ 190m3/day	13	☐ Excavation (Type 38) - GL 1/C-'D'	
3MSS.1113	Rebar Installation (Type 38) - GL 1/C-'D'	31-Dec-15	02-Jan-16	1			13	Rebar Installation (Type 38) - GL 1/C-'D'	}
3MSS.1114	Formworks (Type 38) - GL 1/C-'D'	02-Jan-16	04-Jan-16	1			13	Formworks (Type 38) - GL 1/C-'D'	}
3MSS.1115	Concrete Pouring (Type 38) - GL 1/C-'D'	04-Jan-16	04-Jan-16	0			13	I Concrete Pouring (Type 38) - GL 1/C-'D'	
3MSS.1116	Excavation (Type 2) - GL 2/D-'E'	06-Jan-16	07-Jan-16	1	5m3	1 machine @ 190m3/day	19	☐ Excavation (Type 2) - GL 2/D-'E'	[
3MSS.1117	Rebar Installation (Type 2) - GL 2/D-'E'	07-Jan-16	08-Jan-16	1			19	☐ Rebar Installation (Type 2) - GL 2/D-'E'	
3MSS.1118	Formworks (Type 2) - GL 2/D-'E'	08-Jan-16	09-Jan-16	1			19	☐ Formworks (Type 2) - GL 2/D-'E'	
3MSS.1119	Concrete Pouring (Type 2) - GL 2/D-'E'	09-Jan-16	11-Jan-16	1			19	Concrete Pouring (Type 2) - GL 2/D-'E'	
3MSS.1120	Excavation (Type 14) - GL 2-3/E'-F'	07-Jan-16	08-Jan-16	1	5m3	1 machine @ 190m3/day	19	□ Excavation (Type 14) - GL 2-3/E'-F'	
3MSS.1121	Rebar Installation (Type 14) - GL 2-3/E'-F'	08-Jan-16	09-Jan-16	1	1		19	☐ Rebar Installation (Type 14) - GL 2-3/E'-F'	·
3MSS.1122	Formworks (Type 14) - GL 2-3/E'-F'	09-Jan-16	11-Jan-16	1			19	☐ Formworks (Type 14) - GL 2-3/E-F	
3MSS.1123	Concrete Pouring (Type 14) - GL 2-3/E'-F'	11-Jan-16	12-Jan-16	1			19	Concrete Pouring (Type 14) - GL 2-3/E-F	
	ormation (Area B)	TT Gail 10	12 0011 10				.0		
	Jiliation (Area B)								i
	Deviate in Communication Commu	00 D 45	1				47		;
3MSS.1124	Dewatering Commence	02-Dec-15	44.11 45.4	0			17	◆ · · · · · · · · · · · · · · · · · · ·	
3MSS.1124 3MSS.1125	Initial Site formation	02-Nov-15 A	14-Nov-15 A	1			17	Initial Site formation	
3MSS.1124 3MSS.1125 3MSS.1125.1	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3)	02-Nov-15 A 03-Nov-15 A	14-Nov-15 A	1 4			17	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A	14-Nov-15 A 14-Nov-15 A	1 4 4			17	Initial Site formation  Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10')	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4			17	Initial Site formation  Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA-B'/3-7')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4			17	Initial Site formation  Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd tq +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd tq +1.8mPD for B2 battered slope (GL A-B'/3-7')	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4			17	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/Z-10')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C'/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4				Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4 4			17	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/Z-10')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C'/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A	1 4 4 4 4 4 4	4,215m3	2 machines @ 700m3/day		Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126.51	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A'2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15	1 4 4 4 4 4 4 5 5		2 machines @ 700m3/day 2 machines @ 700m3/day	17	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 slab Formation Level (GL A-B/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1125.51 3MSS.1126	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10')	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15	1 4 4 4 4 4 4 5 5			17 17	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10')	
3MSS.1124 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1127	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 09-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15	1 4 4 4 4 4 4 5 5	3,723m3	2 machines @ 700m3/day	17 17 29	Initial Site formation  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mpD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mpD for B2 battered slope (GL A-E/3-7')  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD battered slope (GL A-E/10-4)  Excavate +1.8mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mpD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.1 3MSS.1125.21 3MSS.1125.21 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1128 3MSS.1128	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 11-Dec-15 14-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15	1 4 4 4 4 4 5 5 5 5	3,723m3 1,697m3	2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 17 29 29	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-E/3-7)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.41 3MSS.1126.41 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1128 3MSS.1129 3MSS.1130	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD bor B2 Slab Formation Level (GL A-K'/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/10')  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-B'/3-7')  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15	1 4 4 4 4 4 5 5 5 5 5	3,723m3 1,697m3 7,665m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 29 29 29	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.41 3MSS.1126.41 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1128 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)  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)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-B'/3-7')  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)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15	1 4 4 4 4 4 5 5 5 5 5	3,723m3 1,697m3 7,665m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 29 29 29	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1131 Stage 1 - Pile C Portion B1	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 05-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 29 29 29 47	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)	
3MSS.1124 3MSS.1125 3MSS.1125 13MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  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 K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  ap Construction (Area B)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day	17 17 29 29 29 47	Initial Site formation  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K'-A/8-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K'-A/8-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD battered slope (GL A-E/10-4)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125 13MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131  Stage 1 - Pile C  Portion B1 3MSS.1132 3MSS.1132	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 15-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	17 17 29 29 29 47	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-K/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125.1 3MSS.1125.1 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1133 3MSS.1133	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-E/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 17-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 3 2 3	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	17 17 29 29 29 47	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1134	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/8-7)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K'/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  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)  ap 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 59 (02)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 05-Nov-15 A 05-Nov-15 A 07-Nov-15 A 09-Nov-15 A 09-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 2 3 3 3 3 3 3 3 3 3	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	17 17 17 29 29 29 47	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 59 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1135 3MSS.1136	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-B/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/3-7')  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  ap 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 79 (02)  Excavation works for Pile - PC 59 (02)  Excavation works for Pile - PC 50 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 3 2 2 3 3 3 3 3 3	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 29	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A'-C/2-6)	
3MSS.1124 3MSS.1125 3MSS.1125 13MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 3tage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1134 3MSS.1136 3MSS.1136	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD for -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A'/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Rebar Installation - Portion B1	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 15-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 29 17	Initial Site formation  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K-K/8-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd tc +1.8mpD battered slope (GL A-E/10-4)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mpD to -2.3mpD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 59 (02)	
3MSS.1124 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.21 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1129 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1137	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  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 - POrtion B1	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 17	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-B/3-7) Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (O2)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 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.1136 3MSS.1136 3MSS.1138	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC 7-2 - 33% (S1)  Excavation works for Pile - PC 7-2 - 33% (S1)  Rebar Installation - PC 72 - 33% (S1)  Rebar Installation - PC 39 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 05-Nov-15A 06-Nov-15A 07-Nov-15A 09-Nov-15A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 29 17 17 17 36	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1137 3MSS.1137 3MSS.1139 3MSS.1139	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  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)  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 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar Installation - Portion B1  Rebar /Earthing Installation - PC 59 (02)  Rebar /Earthing Installation - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 39 (02)  Rebar /Earthing Installation - PC 59 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1139 3MSS.1138 3MSS.1139	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-B/3-7)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  ap 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 59 (02)  Excavation works for Pile - PC 59 (02)  Rebar /Earthing Installation - PC 39 (02)  Rebar /Earthing Installation - PC 59 (02)  Rebar /Earthing Installation - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 390m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 17 36 36 36	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1137 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC -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 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - Portion B1	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jec-15 24-Dec-15 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17	Initial Site formation Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd tc +1.8mPD for B2 battered slope (GL A-E/10-4)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  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 59 (02)  Rebar /Earthing Installation - PC 59 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131 Stage 1 - Pile C Portion B1 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1138 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  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)  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 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar Installation - PO 71 - 33 (S1)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 70 - 33% (S1)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jan-16 23-Dec-15 24-Dec-15 24-Dec-15 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 5.04T 129m2 82m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 17 17 36 36 36 17	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation	6 (81)
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1137 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavation works for Pile - PC -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 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - Portion B1	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 07-Nov-15 A 09-Nov-15 A 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jec-15 24-Dec-15 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 36 36 36 36 17 17 37	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1	6 (s1)
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  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)  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 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar Installation - PO 71 - 33 (S1)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 70 - 33% (S1)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jan-16 23-Dec-15 24-Dec-15 24-Dec-15 23-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 390m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m3 15.04T 5.04T 5.04T 5.04T 129m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL AE-10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Br/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 39 (02)  Pile cap side formworks - PC 59 (02)	5 (s1)
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1141 3MSS.1141 3MSS.1141	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A'/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/3-7) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/3-7) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  BCONSTRUCTION (Area B)  Local Excavation (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 59 (02) Excavation works for Pile - PC 59 (02) Rebar Installation - PC 72 - 33% (S1) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Pile cap side formworks - PC 72 - 33% (S1) Pile cap side formworks - PC 72 - 33% (S1) Pile cap side formworks - PC 72 - 33% (S1)	02-Nov-15A 03-Nov-15A 04-Nov-15A 05-Nov-15A 06-Nov-15A 07-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Dec-15 24-Dec-15 24-Dec-15 23-Dec-15 24-Dec-15 23-Jan-16 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 36 36 36 36 17 17 37	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-6)  Excavate +1	6 (s1)
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1139 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-Z-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-Z-10')  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  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)  Paper 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 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar Installation - Portion B1  Rebar /Earthing Installation - PC 59 (02)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 390m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m3 15.04T 5.04T 5.04T 5.04T 129m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL AE-10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Br/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 39 (02)  Pile cap side formworks - PC 59 (02)	6 (s1)
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131 3tage 1 - Pile C Portion B1 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1143 3MSS.1144 3MSS.1141 3MSS.1142 3MSS.1144 3MSS.1144 3MSS.1145 3MSS.1146	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  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)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/3-7')  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  ap 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 59 (02)  Excavation works for Pile - PC 59 (02)  Rebar /Earthing Installation - PC 39 (02)  Rebar /Earthing Installation - PC 59 (02)  Rebar /Earthing Installation - PC 59 (02)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 39 (02)  Pile cap side formworks - PC 72 - 39 (02)  Pile cap side formworks - PC 59 (02)  Pile cap side formworks - PC 59 (02)  Pile cap side formworks - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 07-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 390m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m3 5.6m4 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 17 36 36 36 36 17 17 17 37 37	Initial Site formation  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd tc +1.8mPD battered slope (GL AE-10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Ar/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-Br/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 39 (02)  Pile cap side formworks - PC 59 (02)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.41 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1130 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1139 3MSS.1138 3MSS.1134 3MSS.1134 3MSS.1134 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to -1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  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-B/3-7)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  app 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 50 (02)  Excavation works for Pile - PC 50 (02)  Rebar Installation - PC 72 - 33% (S1)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 30(C2)  Pile cap side formworks - PC 72 - 30(C2)  Pile cap side formworks - PC 50 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 07-Nov-15A 09-Nov-15A 09-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 399m3 380m3 5.6m3 5.6m3 5.6m3 5.6m3 411 5.04T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 391m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 17 29 29 17 17 17 36 36 36 17 17 17 37 36 17	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GLA/2-10) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLK-K-/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GLA-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GLA-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GLA-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GLK-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 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.1136 3MSS.1139 3MSS.1139 3MSS.1139 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1146 3MSS.1147 3MSS.1147	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  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)  ap 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 59 (02)  Excavation works for Pile - PC 59 (02)  Rebar Installation - POrtion B1  Rebar Installation - PC 71 - 33% (S1)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Portion B1 concrete pouring concrete pouring - concrete pouring - PC 72 - 33% (s1)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 05-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 09-Dec-15 11-Dec-15 14-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jan-16 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 25-Jan-16 26-Jan-16 26-Jan-16 27-Jan-16 27-Jan-16	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 391m3 380m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 17 29 29 29 47 29 17 17 29 17 17 36 36 36 17 17 17 37 37 37	Initial Site formation Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpct tr +1.8mPD for B2 Slab Formation Level (GL K-C/2-6) Excavate +5.0Mpct tr +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-C/2-8)  Excavation works for Pile - PC 72 - 39% (S1)  Excavation works for Pile - PC 72 - 39% (S1)  Rebar /Earthing Installation - PC 39 (02)  Rebar /Earthing Installation - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Concrete pouring - PC 72 - 33% (S1)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1142 3MSS.1144 3MSS.1144 3MSS.1145 3MSS.1146 3MSS.1147 3MSS.1149 3MSS.1149 3MSS.1149	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K')9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A')8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +5.0Mpd to +1.8mPD bor B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K')9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K')8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A')8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (BL A-C')2-6)  Excavation works for Pile - PC 50 (02)  Excavation works for Pile - PC 50 (02)  Excavation works for Pile - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side f	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 23-Jan-16 23-Jan-16 23-Jan-16 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 27-Jan-16 27-Jan-16 28-Dec-15	1 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m2 380m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 29 17 29 17 17 36 36 36 17 37 37 36 17 17 17 37	Initial Site formation Excavate +6.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) 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)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 batter	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1132 3MSS.1131 3MSS.1132 3MSS.1133 3MSS.1133 3MSS.1133 3MSS.1134 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1138 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL ArK/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL Ar2-10)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL Kr-4/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B'/3-7')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL Ar-C/2-6)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Ar-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL Kr-4/8-3)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL Ar-B'/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL R-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/3-7)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  BCONSTRUCTION (Area B)  Local Excavation for Pile caps (-3.3mPD)- (GL A-Kr/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)  Rebar /Earthing Installation - PC 59 (02)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 72 - 33% (S1)  Pile cap side formworks - PC 59 (02)  Pile cap side formworks - PC 59 (02)  Pile cap side formworks - PC 59 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 72 - 33% (S1)  concrete pouring - PC 72 - 33% (S1)  concrete pouring - PC 72 - 33% (S1)  concrete pouring - PC 72 - 33% (S1)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 17-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 23-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15	1 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 3996m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 391m3 380m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 5 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 36 17 17 37 37 37	Initial Site formation Excavate +5.0Mpct to +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Excavate +5.0Mpct to +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +5.0Mpct to +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Excavate +5.0Mpct to +1.8mPD for B2 Slab Formation Level (GL.K-C/2-5) Excavate +5.0Mpct to +1.8mPD for B2 Slab Formation Level (GL.K-C/2-5) Excavate +5.0Mpct to +1.8mPD to read slab Formation Level (GL.K-C/2-5) Excavate +5.0Mpct to +1.8mPD battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-B/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-B/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-B/3-7)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL.K-B/3-7)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL.A-E/10-4)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 79 (02)  Excavation works for Pile - PC 79 (02)  Rebar /Earthing Installation - PC 39 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Pile cap side formworks - PC 50 (02)  Concrete pouring - PC 72 - 33% (s1)	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126.31 3MSS.1127 3MSS.1128 3MSS.1128 3MSS.1129 3MSS.1130 3MSS.1131  Stage 1 - Pile C Portion B1 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1138 3MSS.1139 3MSS.1138 3MSS.1139 3MSS.1141	Initial Site formation  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10')  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +5.0Mpd to +1.8mPD bor B2 Slab Formation Level (GL A-K/9-3)  Excavate +5.0Mpd to +1.8mPD bor B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL K-A/8-3)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (B2 A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (B2 A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (B2 A-C/2-6)  Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (B2 A-C/2-6)  Excavation works for Pile - PC 39 (02)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 72 - 33% (S1)  Excavation works for Pile - PC 50 (02)  Rebar Installation - PC 72 - 33% (S1)  Pile cap side formworks - PC 50 (02)  Portion B1 concrete pouring - PC 50 (02)  concrete pouring - PC 50 (02)  concrete pouring - PC 50 (02)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 09-Nov-15 A 09-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 22-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 3996m3 3996m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 391m3 380m3 5.6m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 machine @ 190m3/day 2 men @ 0.9T/man/day 2 men @ 0.9T/man/day	17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 17 17 37 36 17 17 37 36 36	Initial Site formation Excavate +6.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-B/3-77) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-C/2-6) 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)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4)  Excavate +1.8mPD to -2.3mPD for B2 batter	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.51 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1129 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1134 3MSS.1135 3MSS.1136 3MSS.1138 3MSS.1138 3MSS.1139 3MSS.1139 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1141 3MSS.1142 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1144 3MSS.1146 3MSS.1149 3MSS.1149 3MSS.1150 3MSS.1150 3MSS.1150	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A/K/9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A-B/3-7') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-C/2-6) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 39 (02) Excavation works for Pile - PC 39 (02) Rebar Installation - PC 50 (02) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Portion B1 concrete pouring - PC 59 (02)	02-Nov-15 A 03-Nov-15 A 04-Nov-15 A 04-Nov-15 A 06-Nov-15 A 06-Nov-15 A 07-Nov-15 A 08-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 29-Dec-15	1 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 399m3 5.6m3 5.6m3 5.6m3 355T 341T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 391m3 380m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 men @ 0.9T/man/day 2 men @ 22m2/d/man	17 17 29 29 29 47 29 17 17 29 17 17 36 36 36 17 17 17 37 36 17 17 37 36 17 29 29	Initial Site formation	
3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131  Stage 1 - Pile C Portion B1 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1145 3MSS.1146 3MSS.1146 3MSS.1147 3MSS.1149 3MSS.1151 Portion B2 3MSS.1151	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A/E//9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavation (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 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Concrete pouring - PC 72 - 33% (s1) Concrete pouring - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 22-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 29-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m3 380m3 5.6m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 machine @ 190m3/day 2 machine @ 190m3/day 1 machine @ 22m2/d/man	17 17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37 37 37 37 37 37 37 37 39 29	Initial Site formation Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +1.8mPD for	
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3MSS.1124 3MSS.1125 3MSS.1125 3MSS.1125.11 3MSS.1125.11 3MSS.1125.21 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1125.31 3MSS.1126 3MSS.1127 3MSS.1128 3MSS.1129 3MSS.1129 3MSS.1131  Stage 1 - Pile C Portion B1 3MSS.1131 3MSS.1133 3MSS.1134 3MSS.1135 3MSS.1135 3MSS.1136 3MSS.1136 3MSS.1136 3MSS.1137 3MSS.1138 3MSS.1138 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1140 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1142 3MSS.1141 3MSS.1145 3MSS.1146 3MSS.1146 3MSS.1147 3MSS.1149 3MSS.1151 Portion B2 3MSS.1151	Initial Site formation Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A/E//9-3) Excavate +5.0Mpd to +1.8mPD for B2 battered slope (GL A/2-10') Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL K'-A/8-3) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD for B2 Slab Formation Level (GL A'-C/2-6) Excavate +5.0Mpd to +1.8mPD battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 Slab Formation Level (GL A-K'/9-3) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A/2-10') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-B'/3-7') Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavate +1.8mPD to -2.3mPD for B2 battered slope (GL A-E/10-4) Excavation (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 39 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Excavation works for Pile - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Rebar /Earthing Installation - PC 59 (02) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 72 - 33% (s1) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Pile cap side formworks - PC 59 (02) Concrete pouring - PC 72 - 33% (s1) Concrete pouring - PC 59 (02)	02-Nov-15A 03-Nov-15A 04-Nov-15A 04-Nov-15A 06-Nov-15A 09-Nov-15A 09-Nov-15A 08-Dec-15 11-Dec-15 11-Dec-15 11-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 17-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 21-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15	14-Nov-15 A 14-Dec-15 15-Dec-15 17-Dec-15 19-Dec-15 23-Dec-15 24-Dec-15 21-Dec-15 22-Dec-15 23-Dec-15 23-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 24-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 28-Dec-15 29-Dec-15 24-Dec-15	1 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5	3,723m3 1,697m3 7,665m3 3,996m3 391m3 380m3 5.6m3 5.6m3 5.6m3 5.6m3 5.04T 5.04T 5.04T 5.04T 129m2 82m2 15.2m2 15.2m2 15.2m2 15.2m3 380m3 5.6m3 5.6m3 5.6m3	2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 2 machines @ 700m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 1 machine @ 190m3/day 2 machine @ 190m3/day 2 machine @ 190m3/day 1 machine @ 22m2/d/man	17 17 17 29 29 29 47 29 17 17 29 29 17 17 36 36 36 17 37 37 37 37 37 37 37 37 39 29	Initial Site formation Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-A/8-3) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.K-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-C/2-6) Executed +5.0Mpd td +1.8mPD for B2 Slab Formation Level (GL.A-K/9-3) Executed +1.8mPD for	



Page 4 of 7

Date Revision Checked Approved
22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett
02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

Activity ID A	Activity Name	Start	Finish	Original	Quants	Production	Total	November December January February March
				Duration	1		Float	01         08         15         22         29         06         13         20         27         03         10         17         24         31         07         14         21         28         06           6         7         8         9         10         11         12         13         14         15         16         17         18         19         20         21         22         23         24
3MSS.1157 R	Rebar Installation - PC 60 (02)	23-Dec-15	24-Dec-15	1	5.04T		49	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	` '							
	Rebar Installation - PC 40 (07)	24-Dec-15	04-Jan-16	6	22.05T		35	Rebar Installation - PC 40 (07)
3MSS.1159 R	Rebar Installation - PC 51 (02)	04-Jan-16	05-Jan-16	1	5.04T		35	Rebar Installation - PC 51 (02)
3MSS.1160 P	Pile cap side formworks - Portion B2	04-Jan-16	05-Jan-16	2	59m2	2 men @ 22m2/d/man	35	
3MSS.1161 P	Pile cap side formworks - PC 60 (02)	04-Jan-16	05-Jan-16	1	15.2m2		43	☐ Pile cap side formworks - PC 60 (02)
3MSS.1162 P	Pile cap side formworks - PC 40 (07)	04-Jan-16	05-Jan-16	2	28m2		35	Pile cap side formworks - PC 40 (07)
	Pile cap side formworks - PC 51 (02)	05-Jan-16	05-Jan-16	1	15.2m2		35	I Pile cap side formworks - PC 51 (02)
	Portion B2 concrete pouring	06-Jan-16	06-Jan-16	1	36m3		35	a no cap sac rommone i o o r (cz)
	· •			4				P
	concrete pouring - PC 60 (02)	06-Jan-16	06-Jan-16	1	5.6m3		42	☐ concrete pouring - PC 60 (02)
3MSS.1166 o	concrete pouring - PC 40 (07)	06-Jan-16	06-Jan-16	1	24.5m3		35	□ concrete pouring - PC 40 (07)
3MSS.1167 o	concrete pouring - PC 51 (02)	06-Jan-16	06-Jan-16	1	5.6m3		35	Concrete pouring - PC 51 (02)
Portion B3								
3MSS.1168 L	Local Exc'n 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	24-Dec-15	31-Dec-15	5	219m3	1 machine @ 190m3/day	44	
	Excavation works for Pile - PC 62 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 62 (02)
						· ·		
	Excavation works for Pile - PC 61 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 61 (02)
3MSS.1171 E	Excavation works for Pile - PC 53 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 53 (02)
3MSS.1172 E	Excavation works for Pile - PC 52 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 52 (02)
3MSS.1173 E	Excavation works for Pile - PC 54 (02)	24-Dec-15	28-Dec-15	1	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 54 (02)
3MSS.1174 E	Excavation works for Pile - PC 41 (02)	28-Dec-15	31-Dec-15	3	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 41 (02)
	Excavation works for Pile - PC 42 (07)	28-Dec-15	31-Dec-15	3	24.5m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 42 (07)
				-		· · · · · · · · · · · · · · · · · · ·		
	Excavation works for Pile - PC 44 (02)	28-Dec-15	31-Dec-15	3	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 44 (02)
3MSS.1177 E	Excavation works for Pile - PC 43 (02)	28-Dec-15	31-Dec-15	3	5.6m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 43 (02)
3MSS.1178 E	Excavation works for Pile - PC 30 (S5)	28-Dec-15	31-Dec-15	3	142m3	1 machine @ 190m3/day	29	Excavation works for Pile - PC 30 (S5)
	Excavation works for Pile - PC 32 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	Excavation works for Pile - PC 32 (01)
	Excavation works for Pile - PC 31 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	B: Excavation works for Pile - PC 31 (01)
				- 1				
	Excavation works for Pile - PC 16 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	Excavation works for Pile - PC 16 (01)
3MSS.1182 E	Excavation works for Pile - PC 15 (01)	31-Dec-15	31-Dec-15	1	2m3	1 machine @ 190m3/day	44	Excavation works for Pile - PC 15 (01)
3MSS.1183 R	Rebar Installation - Portion B3	28-Dec-15	02-Jan-16	5	176T	5 men @ 0.9T/man/day	44	
	Rebar Installation - PC 62 (02)	28-Dec-15	28-Dec-15	1	5.04T		48	Repar Installation - PC 62 (02)
				1	5.04T		48	■ Rebar Installation - P. 61 (02)
	Rebar Installation - PC 61 (02)	28-Dec-15	28-Dec-15					
	Rebar Installation - PC 53 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	☐ Reþar Installation - PC 53 (02)
3MSS.1187 R	Rebar Installation - PC 52 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	■ Rebar Installation - PC 52 (02)
3MSS.1188 R	Rebar Installation -PC 54 (02)	28-Dec-15	28-Dec-15	1	5.04T		49	Rebar Installation -PC 54 (02)
3MSS.1189 R	Rebar Installation - PC 41 (02)	02-Jan-16	06-Jan-16	3	5.04T		43	Rebar Installation - PC 41 (02)
	Rebar Installation - PC 42 (07)	31-Dec-15	07-Jan-16	5	22.05T		42	Rebar Installation - PC 42 (07)
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	Rebar Installation -PC 44 (02)	31-Dec-15	05-Jan-16	3	5.04T		45	Rebar Installation -PC 44 (02)
3MSS.1192 R	Rebar Installation - PC 43 (02)	31-Dec-15	05-Jan-16	3	5.04T		45	Rebar Installation - PC 43 (02)
3MSS.1193 R	Rebar /Earthing Installation - PC 30 (S5)	31-Dec-15	22-Jan-16	18	128.55T		29	Rebar /Earthing Installation - PC 30 (S5)
3MSS.1194 R	Rebar Installation - PC 32 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	Rebar Installation - PC 32 (01)
	Rebar Installation - PC 31 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	I Rebar Installation - PC 31 (01)
	·			1			44	
	Rebar /Earthing Installation - PC 16 (01)	02-Jan-16	02-Jan-16	1	1.8T			I Rebar /Earthing Installation - PC 16 (01)
	Rebar Installation - PC 15 (01)	02-Jan-16	02-Jan-16	1	1.8T		44	I Rebar Installation - PC 15 (01)
3MSS.1198 P	Pile cap side formworks - Portion B3	29-Dec-15	04-Jan-16	5	169m2	2 men @ 22m2/d/man	44	
3MSS.1199 P	Pile cap side formworks - PC 62 (02)	29-Dec-15	29-Dec-15	1	15.2m2		48	I Pile cap side formworks - PC 62 (02)
	Pile cap side formworks - PC 61 (02)	29-Dec-15	29-Dec-15	1	15.2m2		48	I Pile cap side formworks - PC 61 (02)
	· · · · · · · · · · · · · · · · · · ·			1			49	
	Pile cap side formworks - PC 53 (02)	29-Dec-15	29-Dec-15	1	15.2m2			I Pile cap side formworks - PC 53 (02)
3MSS.1202 P	Pile cap side formworks - PC 52 (02)	29-Dec-15	29-Dec-15	1	15.2m2		49	I Pile cap side formworks - PC 52 (02)
3MSS.1203 P	Pile cap side formworks -PC 54 (02)	29-Dec-15	29-Dec-15	1	15.2m2		49	Pile cap side formworks -PC 54 (02)
3MSS.1204 P	Pile cap side formworks -PC 41 (02)	06-Jan-16	07-Jan-16	1	15.2m2		43	☐ Pile cap side formworks - PC 41 (02)
3MSS.1205 P	Pile cap side formworks - PC 42 (07)	07-Jan-16	09-Jan-16	2	28m2		42	□ Pile cap side formworks - PC 42 (07)
	Pile cap side formworks -PC 44 (02)	08-Jan-16	09-Jan-16	1	15.2m2		42	Pile cap side formworks -PC 44 (02)
				1				
	Pile cap side formworks - PC 43 (02)	08-Jan-16	09-Jan-16	1	15.2m2		42	☐ Pile cap side formworks - PC 43 (0²)
3MSS.1208 P	Pile cap side formworks - PC 30 (S5)	22-Jan-16	26-Jan-16	3	69m2		29	Pile cap side forrhworks - PC 30 (S5)
3MSS.1209 P	Pile cap side formworks - PC 32 (01)	02-Jan-16	04-Jan-16	1	8m2		44	☐ Pile cap side formworks - PC 32 (01)
	Pile cap side formworks - PC 31 (01)	02-Jan-16	04-Jan-16	1	8m2		44	□ Pile cap side formworks - PC 31 (01)
	Pile cap side formworks -PC 16 (01)	02-Jan-16	04-Jan-16	1	8m2		44	□ Pile cap side formworks -PC 16 (01)
				1 4				
	Pile cap side formworks - PC 15 (01)	02-Jan-16	04-Jan-16	1	8m2		44	□ Pile cap side formworks - PC 15 (01)
	Portion B3 concrete pouring	04-Jan-16	04-Jan-16	0	190m3		44	
3MSS.1214 C	Concrete pouring - PC 62 (02)	04-Jan-16	05-Jan-16	1	5.6m3		45	☐ Concrete pouring - PC 62 (02)
3MSS.1215 C	Concrete pouring - PC 61 (02)	04-Jan-16	05-Jan-16	1	5.6m3		45	☐ Concrete pouring - PC 61 (02)
	Concrete pouring - PC 53 (02)	04-Jan-16	05-Jan-16	1	5.6m3		46	☐ Concrete pouring - PC 53 (02)
	Concrete pouring - PC 52 (02)	04-Jan-16	05-Jan-16	1	5.6m3		46	Concrete pouring - PC 52 (02)
				4			46	
	Concrete pouring - PC 54 (02)	04-Jan-16	05-Jan-16	1	5.6m3			Concrete pouring - PC 54 (02)
	Concrete pouring - PC 41 (02)	07-Jan-16	08-Jan-16	1	5.6m3		43	☐ Concrete pouring - PC 41 (02)
3MSS.1220 C	Concrete pouring - PC 42 (07)	09-Jan-16	11-Jan-16	1	25m3		42	Concrete pouring - PC 42 (07)
3MSS.1221 C	Concrete pouring - PC 44 (02)	09-Jan-16	11-Jan-16	1	5.6m3		42	Concrete pouring - PC 44 (02)
	Concrete pouring - PC 43 (02)	09-Jan-16	11-Jan-16	1	5.6m3		42	Concrete pouring - PC 43 (02)
	Concrete pouring - PC 30 (S5)	26-Jan-16	28-Jan-16	2	142m3		29	Concrete pouring - PC 30 (S5)
	Concrete pouring - PC 32 (01)	11-Jan-16	11-Jan-16	1	2m3		87	II Concrete pouring - PC 32 (01)
	Concrete pouring - PC 31 (01)	11-Jan-16	11-Jan-16	1	2m3		87	Concrete pouring - PC 31 (01)
3MSS.1226 C	Concrete pouring - PC 16 (01)	04-Jan-16	05-Jan-16	1	2m3		44	☐ Concrete pouring - PC 16 (01)
3MSS.1227 C	Concrete pouring - PC 15 (01)	04-Jan-16	05-Jan-16	1	2m3		44	☐ Concrete pouring - PC 15 (01)
	8,40,1,11) - Portion B					<u>,                                      </u>		
		00 D 45	00 D 45		50	4	45	
	Excavation (Type 12) - GL 5/A-B	29-Dec-15	30-Dec-15	1	5m3	1 machine @ 190m3/day	45	Excavation (Type 12) - GL 5/A-B
	Rebar Installation (Type 12) - GL 5/A-B	30-Dec-15	31-Dec-15	1			45	Rebar Installation (Type 12) - GL 5/A-B
3MSS.1302 F	Formworks (Type 12) - GL 5/A-B	31-Dec-15	02-Jan-16	1			45	Formworks (Type 12) - GL 5/A-B
	Concrete Pouring (Type 12) - GL 5/A-B	02-Jan-16	04-Jan-16	1			45	Concrete Pouring (Type 12) - GL 5/A-B
	Excavation (Type 8) - GL 6-7/B-C	07-Jan-16	07-Jan-16	1	5m3	1 machine @ 190m3/day	42	Il Excavation (Type 8) - GL 6-7/B-C
1 VUCE 1204				1	JIIIJ	i madime w 190m3/day		
	Rebar Installation (Type 8) - GL 6-7/B-C	08-Jan-16	08-Jan-16	1			42	Rebar Installation (Type 8) - GL 6-7/B-C
3MSS.1305 R	Formworks (Type 8) - GL 6-7/B-C	09-Jan-16	09-Jan-16	1			42	☐ Formworks (Type 8) - GL 6-7/B-C
3MSS.1305 R	Tommonia (Type o) CE o TIB C		11-Jan-16	1			43	□ Concrete Pouring (Type 8) - G
3MSS.1305 R 3MSS.1306 F	Concrete Pouring (Type 8) - GL 6-7/B-C	11-Jan-16					_	
3MSS.1305 R 3MSS.1306 F 3MSS.1307 C	Concrete Pouring (Type 8) - GL 6-7/B-C			1	5m3	1 machine @ 190m3/day	42	Fycavation (Type 40) - GL 6-7/C-D
3MSS.1305 R 3MSS.1306 F 3MSS.1307 C 3MSS.1308 E	Concrete Pouring (Type 8) - GL 6-7/B-C Excavation (Type 40) - GL 6-7/C-D	08-Jan-16	08-Jan-16	1	5m3	1 machine @ 190m3/day	42	II Excavation (Type 40) - GL 6-7/C-D
3MSS.1305 R 3MSS.1306 F 3MSS.1307 C 3MSS.1308 E 3MSS.1309 R	Concrete Pouring (Type 8) - GL 6-7/B-C Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16	08-Jan-16 09-Jan-16	1 1	5m3	1 machine @ 190m3/day	42	Rebar Installation (Type 40) - GL 6-7/C-D
3MSS.1305 R 3MSS.1306 F 3MSS.1307 C 3MSS.1308 E 3MSS.1309 R 3MSS.1310 F	Concrete Pouring (Type 8) - GL 6-7/B-C Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D Formworks (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16 11-Jan-16	08-Jan-16 09-Jan-16 11-Jan-16	1	5m3	1 machine @ 190m3/day	42 42	Rebar Installation (Type 40) - GL 6-7/C-D   Formworks (Type 40) - GL 6-7/C-D
3MSS.1305 R 3MSS.1306 F 3MSS.1307 C 3MSS.1308 E 3MSS.1309 R 3MSS.1310 F	Concrete Pouring (Type 8) - GL 6-7/B-C Excavation (Type 40) - GL 6-7/C-D Rebar Installation (Type 40) - GL 6-7/C-D	08-Jan-16 09-Jan-16	08-Jan-16 09-Jan-16	1 1 1 0	5m3	1 machine @ 190m3/day	42	☐ Rebar Installation (Type 40) - GL 6-7/C-D



ID	Activity Name	Start	Finish	Original Qua Duration	nts Production	Total Float	November         December         January         February           08         15         22         29         06         13         20         27         03         10         17         24         31         07         14         21         28
3MSS.1312	Excavation (Type 1) - GL 4-5/C-D	09-Jan-16	09-Jan-16	1 5m3	1 machine @ 190m3/day	42	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  © Excavation (Type 1) - GL 4-5/C-D
3MSS.1313	Rebar Installation (Type 1) - GL 4-5/C-D	11-Jan-16	11-Jan-16	1		42	Rebar Installation (Type 1) - GL 4-5/C-D
3MSS.1314	Formworks (Type 1) - GL 4-5/C-D	12-Jan-16	12-Jan-16	1		42	Formworks (Type 1) - GL 4-5/C-D
3MSS.1315	Concrete Pouring (Type 1) - GL 4-5/C-D	13-Jan-16	13-Jan-16	0 1 5m3	1 machine @ 190m3/day	43 42	Concrete Pouring (Type 1) - GL 4-5/C-D
3MSS.1316 3MSS.1317	Excavation (Type 11) - GL 5-6/D  Rebar Installation (Type 11) - GL 5-6/D	11-Jan-16 12-Jan-16	11-Jan-16 12-Jan-16	1 51113	i machine @ 190ms/day	42	☐ Excavation (Type 11) - GL 5-6/D ☐ Rebar Installation (Type 11) - GL 5-6/D
3MSS.1318	Formworks (Type 11) - GL5-6/D	13-Jan-16	13-Jan-16	1		42	Formworks (Type 11) - GL5-6/D
3MSS.1319	Concrete Pouring (Type 11) - GL 5-6/D	14-Jan-16	14-Jan-16	1		42	☐ Concrete Pouring (Type 1:t) - GL 5-6/D
ift / Escalator Pit	Pit						
Lift Pit (GL 3-4/B	B'-C')						
3MSS.1320	Excavation	31-Dec-15	04-Jan-16	2 5m3	1 machine @ 190m3/day	88	Excavation
3MSS.1321	Rebar Installation	04-Jan-16	06-Jan-16	2		88	Rebar Installation
3MSS.1322	Formworks	06-Jan-16	08-Jan-16	2		88	Formworks
3MSS.1323	Concrete Pouring	08-Jan-16	09-Jan-16	1		88	□ Concrete Pouring
Escalator Pit (GL 3MSS.1324		29 Dec 15	30-Dec-15	2 5m3	1 machine @ 190m3/day	43	■ Excavation
3MSS.1325	Excavation  Rebar Installation	28-Dec-15 30-Dec-15	02-Jan-16	2 5m3	T machine @ 190ms/day	43	Excavation  Rebar Installation
3MSS.1326	Formworks	02-Jan-16	05-Jan-16	2		44	Formworks
3MSS.1327	Concrete Pouring	05-Jan-16	06-Jan-16	1		44	☐ Concrete Pouring
tage 1 - Underg	ground Drainage	· ·			,		
3MSS.1328	Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H)	23-Dec-15	31-Dec-15	5 2 N		0	Installation of Underground Drainage below B2 Slab - Portion A1 (2 Nr of M/H)
3MSS.1329	Preparation of Formworks & Cast underground pipes - Portion A1	31-Dec-15	04-Jan-16	2		0	Preparation of Formworks & Cast underground pipes - Portion A1
3MSS.1330	Installation of Underground Drainage below B2 Slab - Portion A2 (2 Nr of M/H)	31-Dec-15	07-Jan-16	5 1 N		8	Installation of Underground Drainage below B2 Stab - Portion A2 (2 Nr of M/H)
3MSS.1331	Preparation of Formworks & Cast underground pipes - Portion A2	07-Jan-16	09-Jan-16	2		8	Preparation of Formworks & Cast underground pipes - Portion A2
3MSS.1332	Installation of Underground Drainage below B2 Slab - Portion A3 (2 Nr of M/H)	07-Jan-16	13-Jan-16	5 1 N		16	Installation of Underground Drainage below B2 Slab - Portion A3 (2 Nr of M/H)
BMSS.1333	Preparation of Formworks & Cast underground pipes - Portion A3	13-Jan-16	15-Jan-16	2 5 1 N		16 17	Preparation of Formworks & Cast underground pipes - Portion A3  Installation of Underground Drainage below B2 Slab - Po
3MSS.1334 3MSS.1335	Installation of Underground Drainage below B2 Slab - Portion B1 (1 Nr of M/H)  Preparation of Formworks & Cast underground pipes - Portion B1	21-Jan-16 27-Jan-16	27-Jan-16 29-Jan-16	5 1 N		23	Installation of Underground Drainage below B2 Stab; Po
BMSS.1335	Installation of Underground Drainage below B2 Slab - Portion B2 (3 Nr of M/H)	27-Jan-16 27-Jan-16	29-Jan-16 02-Feb-16	5 1 N		17	Preparation of Formworks & Cast underground pipes  Installation of Underground Drainage below B2
MSS.1337	Preparation of Formworks & Cast underground pipes - Portion B2	02-Feb-16	02-Feb-16 04-Feb-16	2		17	□ Predzation of Formworks & Cast undergro
MSS.1338	Installation of Underground Drainage below B2 Slab - Portion B3 (1 Nr of M/H)	02-Feb-16	11-Feb-16	5 3 N		19	Installation of Underground Drai
BMSS.1339	Preparation of Formworks & Cast underground pipes - Portion B3	11-Feb-16	13-Feb-16	2		19	Preparation of Formworks &
ower Crane No 1							
MSS.1340	Position Sign-off for TC1	28-Nov-15	28-Nov-15	1		0	Position Sign-off for TC1
MSS.1341	Design submission and approval	30-Nov-15	24-Dec-15	21		0	Design submission and approval
MSS.1342	Mobilization & procurement	28-Dec-15	01-Feb-16	30		0	Mobilization & procurement
MSS.1343	Blinding and Waterproofing	02-Feb-16	04-Feb-16	2		0	Blinding and Waterproofing
MSS.1344 MSS.1345	Rebar Installation - Tower Cranes no 1 Base Casting	04-Feb-16 13-Feb-16	13-Feb-16	5		0	Rebar Installation - Tower Cr. Formworks Installation -
MSS.1346	Formworks Installation - Tower Cranes no 1 Base Casting  Concrete Casting	16-Feb-16	16-Feb-16 17-Feb-16	1		0	Concrete Casting
age 2	Condition Consumy	10-1 65-10	17-1 60-10	'		U	■ Convete Casing
	ab Construction						
3MSS.1347	Backfill and Roll - Portion A1	07-Jan-16	11-Jan-16	3 113	n3 @ 40m3/day per gang	0	Backfill and Roll - Portion A1
3MSS.1348	Waterproofing works - Portion A1	11-Jan-16	14-Jan-16	3 750	71 0 0	0	Waterproofing works - Portion A1
BMSS.1349	Lay Rebar for B2 Slab - Portion A1	14-Jan-16	13-Feb-16	23 610	7. 0 0	0	Lay Rebar for B2 Slab - Port
MSS.1350	Formworks for B2 Slab - Portion A1	13-Feb-16	16-Feb-16	2 85m	2	0	Formworks for B2 Ślab
MSS.1351	Concrete Pouring - Portion A1	16-Feb-16	17-Feb-16	1 488	13	0	■ Concrete Pouring - Po
MSS.1352	Backfill and Roll - Portion A2	16-Jan-16	19-Jan-16	2 84m		2	Backfill and Roll - Portion A2
3MSS.1353	Waterproofing works - Portion A2	19-Jan-16	21-Jan-16	2 750		2	Water proofing; works - Plorsion A2
BMSS.1354 BMSS.1355	Lay Rebar for B2 Slab - Portion A2 Formworks for B2 Slab - Portion A2	21-Jan-16 16-Feb-16	13-Feb-16 17-Feb-16	17 454 1 64m		0	Lay Rebar for B2 Slab - Porti
MSS.1356	Concrete Pouring - Portion A2	17-Feb-16	18-Feb-16	1 363		0	Concrete Pouring - P
MSS.1357	Backfill and Roll - Portion A3	29-Jan-16	30-Jan-16	1 28m		4	■ Backfill and Roll - Portion A3
MSS.1358	Water proofing works - Portion A3	30-Jan-16	01-Feb-16	1 750		4	Water propfing works - Portion A3
MSS.1359	Lay Rebar for B2 Slab - Portion A3	03-Feb-16	13-Feb-16	6 152		2	Lay Rebar for B2 Slab - Port
MSS.1360	Formworks for B2 Slab - Portion A3	16-Feb-16	17-Feb-16	1 36m		0	■ Formworks for B2 Slab
MSS.1361	Concrete Pouring - Portion A3	17-Feb-16	18-Feb-16	1 122		0	■ Concrete Pouring - P
/ISS.1362	Backfill and Roll - Portion B1	29-Jan-16	01-Feb-16	2 95m	71 0 0	23	Backfil and Roll - Portion B1
MSS.1363	Waterproofing works - Portion B1	01-Feb-16	03-Feb-16	2 750		23	☐ Water proofing works - Portion B1
MSS.1367	Backfill and Roll - Portion B2	13-Feb-16	16-Feb-16	2 77m	7. 0 0	17	Backfill and Roll - Portion
MSS.1368 MSS.1372	Waterproofing works - Portion B2  Backfill and Roll - Portion B3	16-Feb-16 16-Feb-16	18-Feb-16 20-Feb-16	2 750 4 158	71 0 0	19 17	Waterproofing works
MSS.1372 MSS.1373	Waterproofing works - Portion B3	20-Feb-16	20-Feb-16 25-Feb-16	4 158 4 750		17	Backdiii and Roll -
	promation & Pile Cap Construction	20-1-60-10	20.1 CD=10	7 730	Goodingraay per garig	11	Vale po
ortion A4							
MSS.1377	Excavate to -2.3mPD for B2 Slab Formation Level (GL F'-H'//'-2') - Portion A4	18-Feb-16	25-Feb-16	6 122	m3 1 machines @ 350m3/day	0	Excayate
BMSS.1378	Excavation works for Pile -PC 09 (02)	25-Feb-16	26-Feb-16	1 36m		0	Exclavati
			26-Feb-16	1 18m		0	■ Excavati
	Excavation works for Pile -PC 10 (01)	25-Feb-16				0	■ Exclavati
MSS.1379	Excavation works for Pile -PC 10 (01) Excavation works for Pile -PC 54 (03)	25-Feb-16 25-Feb-16	26-Feb-16	1 57m	1 machine @ 190m3/day		
MSS.1379 MSS.1380 MSS.1381	Excavation works for Pile -PC 54 (03) Excavation works for Pile -PC 55 (03)	25-Feb-16 25-Feb-16	26-Feb-16	1 57m	1 machine @ 190m3/day	0	■ Exc≱vati
MSS.1379 MSS.1380 MSS.1381 MSS.1382	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)	25-Feb-16 25-Feb-16 25-Feb-16	26-Feb-16 26-Feb-16	1 57m 1 36m	1 machine @ 190m3/day 1 machine @ 190m3/day	0	■ Exc≱vati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16	1 57m	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0	■ Exc≱vati ■ Excavati ■ Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	1 57m 1 36m 1 81m	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2	■ Exc≱vati ■ Excavati ■ Excavati ■ Rebar I
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384 MSS.1385	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	1 57m 1 36m 1 81m 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2	■ Excavati ■ Excavati ■ Excavati ■ Rebar I ■ Rebar I
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1382 8MSS.1383 8MSS.1384 8MSS.1385 8MSS.1386	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 54 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2	■ Exc≱vati ■ Excavati ■ Exchavati ■ Rebar I ■ Rebar
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1383 8MSS.1383 8MSS.1383 8MSS.1386 8MSS.1386	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 55 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16	1 57m 1 36m 1 81m 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0	Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1383 MSS.1384 MSS.1385 MSS.1386 MSS.1386 MSS.1386 MSS.1387 MSS.1387	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 51 (02)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16 26-Feb-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2	Excavati
8MSS.1379 8MSS.1380 8MSS.1381 8MSS.1382 8MSS.1383 8MSS.1384 8MSS.1385 8MSS.1386 8MSS.1386	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 55 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0 0	Excavati
MSS.1379 MSS.1380 MSS.1381 MSS.1382 MSS.1382 MSS.1383 MSS.1384 MSS.1385 MSS.1386 MSS.1387 MSS.1388 MSS.1388 MSS.1389 MSS.1390	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 54 (03)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 51 (02)  Rebar Installation - PC 51 (02)  Rebar Installation - PC 45 (07)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16 26-Feb-16 03-Mar-16	1 57m 1 36m 1 81m 1 1	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0 0	Excavati
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BMSS.1379 BMSS.1380 BMSS.1381 BMSS.1382 BMSS.1383 BMSS.1384 BMSS.1386 BMSS.1386 BMSS.1386 BMSS.1387 BMSS.1389 BMSS.1390 BMSS.1390 BMSS.1391 BMSS.1391	Excavation works for Pile -PC 54 (03)  Excavation works for Pile -PC 55 (03)  Excavation works for Pile -PC 51 (02)  Excavation works for Pile -PC 45 (07)  Rebar Installation - PC 09 (02)  Rebar Installation - PC 10 (01)  Rebar Installation - PC 54 (03)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 55 (03)  Rebar Installation - PC 45 (07)  Pile cap side formwork -PC 09 (02)  Pile cap side formwork -PC 10 (01)  Pile cap side formwork -PC 55 (03)  Pile cap side formwork -PC 55 (03)	25-Feb-16 25-Feb-16 25-Feb-16 25-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 27-Feb-16 27-Feb-16 27-Feb-16 21-Mar-16 01-Mar-16	26-Feb-16 26-Feb-16 26-Feb-16 26-Feb-16 01-Mar-16 01-Mar-16 03-Mar-16 27-Feb-16 03-Mar-16 27-Feb-16 01-Mar-16	1 57m 1 36m 1 81m 1 1 3	1 machine @ 190m3/day 1 machine @ 190m3/day	0 0 0 2 2 2 0 0 0 0 0 3 3 3 1 1	Excipatat  Excipatat  Excipatat  Rebar I  Rebar I  Plecc  Plecc  Plecc  Plecc  Plecc  Plecc
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M+ 3 Months Rolling Programme (3MRP)

Revision B (1st Draft)

7	M+3 Months Rolling Programme							
'	Date	Revision	Checked	Approved				
	22-Oct-15	MOBP/3MRP Prog Rev B	Edgar Payos	Leo Harnett				
	02-Dec-15	3MRP Rev B (1st Draft)	Edgar Payos	Leo Harnett				

Activity ID	Activity Name	Start	Finish	Original Quants Duration	Production	Total	November	December	January		February	March
				Duration		Float	01 08 15 22	29 06 13 20 2 10 11 12 13 1	7 03 10 17 24	31	07 14	21 28 (
3MSS.1396	concrete pouring - PC 09 (02)	27-Feb-16 2	29-Feb-16	1		4	0 1 9	10 11 12 13 1	10 17 10	19	20   21	concrete
3MSS.1397	concrete pouring - PC 10 (01)		29-Feb-16	1		4						concrete
3MSS.1398	concrete pouring - PC 54 (03)		02-Mar-16	1		2						■ concre
3MSS.1399	concrete pouring - PC 55 (03)		02-Mar-16	1		2						concre
3MSS.1400	concrete pouring - PC 51 (02)		02-Mar-16	1		2						■ concre
3MSS.1401	concrete pouring - PC 45 (07)		04-Mar-16	1		0						l co
Portion A5	The state of the s	2.1.14										-
3MSS,1402	Excavate to -2.3mPD for B2 Slab Formation Level (GL H'-J/1-3) - Portion A5	25-Feb-16 0	03-Mar-16	6 1971m3	1 machines @ 350m3/day	27	1					Exca
3MSS.1403	Excavate to -2.3ml D for B2 Slab battered slope (GL H'-J'/7'-2) - Portion A5 (N)		05-Mar-16	2 799m3	1 machines @ 350m3/day	27	1					
3MSS.1404	Excavate to -2.3ml D for B2 Slab battered slope (GLF1-4/1-2) - Portion A5 (N)		08-Mar-16	2 799m3	1 machines @ 350m3/day	27						
M+ AEL South	, , , , ,	03-Wai - 10	JO-IVIAI - TO	2 793113	Timacinies & 330m3/day	21	<b> </b>					
							4					
East Pile Cap	(Core wall)						4					
3MSS.S001	Excavate to Reduce levels +2.45mPD	11-Dec-15 A 14	4-Dec-15 A	2 464m3	1 machine @ 190m3/day			Excavate to Reduce leve	els +2.45mPD			
3MSS.S002	Battered Slope	14-Dec-15 1	17-Dec-15	3 510m3		193		Battered Slope				
3MSS.S003	Rebar Installation	17-Dec-15 2	23-Feb-16	51 699T	15men @ 0.9ton/m/day	193			1			Rebar Installation
3MSS.S004	Formworks Installation	23-Feb-16 2	29-Feb-16	5 209m2	2 men @ 22m2/d/man	193			!			Formwor
3MSS.S005	Concrete pouring	29-Feb-16 0	01-Mar-16	1 777m3		193						Concret
DCS Structure							4					
3MSS.D000	Dewatering - Installation and Test	02-Dec-15 2	21-Dec-15	16		243	1	Dewatering	- Installation and Test			
3MSS.D001	Excavate from +5.50mPD (Existing Level) to +4.85mPD		30-Dec-15	3 427m3	1 machine @ 190m3/day	242	1		Excavate from +5.50mPD (Existing Level) to	±4.85mPD		
3MSS.D001	Excavate from +4.85mPD to +3.70mPD		05-Jan-16	4 756m3	1 machine @ 190m3/day	242	<u> </u>	<del> </del> <del> </del>	Excavate from +4.85mPD to +3.70			·
3MSS.D002	Install 1st Layer Struts at +4.2mPD		20-Jan-16	13	T machine @ 190m3/day	242	1		Install 1st		2mPD	
3MSS.D003	Excavate from +3.5 to -0.50mPD		25-5an-16 05-Feb-16	14 2764m3	1 machine @ 190m3/day	240	1		IIIstaii 1st		xcavate from +3.5 t	o 0.50mPD
3MSS.D004 3MSS.D005	Excavate to -0.5mPD to -2.5mPD		03-Mar-16	7 1316m3	-	240	1			<u> </u>	Adavate II OIII +3.5 t	Exca
3MSS.D005	Install 2nd Layer Struts at 0.0mPD (w/ preloading)		24-Feb-16	13	T machine & 190m3/day	240	1					Install 2nd Laver S
Tower Crane N		03-1-60-10 2	24-1-60-10	13		240	<b>1</b>					ilistali 4liu Layer C
							4					
3MSS.T002	Position Sign-off for TC3		28-Nov-15	1		263	-	Position Sign-off for TC3				
3MSS.T003	Design submission and approval		10-Dec-15	10		263	-	Design submission and approv	· ·			
3MSS.T004	Mobilization & procurement		31-Dec-15	15		263	-		Mobilization & procurement			
3MSS.T006	Excavate ro reduce level +2.45mPD		08-Jan-16	1 464m3	350m3/day	259	<b> </b>		■ Excavate ro reduce level +2.4			<del>,</del>
3MSS.T007	Excavate battered slope		12-Jan-16	3 510m3	350m3/day	259	-		Excavate battered slop	i		
3MSS.T008	Excavation for TC3 Base		15-Jan-16	2 6m3	1 machine @ 190m3/day	259			Excavation for TC3			
3MSS.T009	Construction of Pile Caps for TC3 Base	15-Jan-16 0	06-Feb-16	19		259					Construction of Pile	Caps for TC3 Base
M+.70 Externa	l Works						4					
Interfacing Wo	rks											
	uence Along Interface south of AEL						1					
							A.					
Pile Cap 95 (M							4					-
3MIF.I001	Excavate to Reduce levels +3.9mPD		02-Mar-16	1 7m3	1 machine @ 190m3/day	193	-1					☐ Excav
3MIF.I002	Battered Slope		03-Mar-16	1 42m3		193	-					☐ Batte
3MIF.I003	Rebar Installation		05-Mar-16	2 6.45T	5men @ 0.9ton/m/day	193	4					R
3MIF.I004	Formworks Installation		07-Mar-16	1 21m2	2 men @ 22m2/d/man	193	4					_
3MIF.I005	Concrete pouring	07-Mar-16 0	08-Mar-16	1 7m3		193	d.					
Pile Cap 100							4					
3MIF.I031	Excavate to Reduce levels +0.7mPD	03-Mar-16 0	04-Mar-16	1 15m3	1 machine @ 190m3/day	193						☐ Ex
#100A - Stockp	oiling in Arts Pavilion Site						4					
3MIF.1150	Stockpile period	01-Dec-15 (	01-Apr-16	94		218						
3MIF.1150	<u></u> Stоожрів регіоа	U1-Dec-15 (	U1-Apr-16	94		218		:				



Page 7 of 7

M+3 Months Rolling Programme

Date Revision Checked Approved

22-Oct-15 MOBP/3MRP Prog Rev B Edgar Payos Leo Harnett

02-Dec-15 3MRP Rev B (1st Draft) Edgar Payos Leo Harnett

#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



# 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



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,

Re: West Kowloon Cultural District

M+ Museum for Visual Culture (Main Contract Works)

**Environmental Team Consultancy Services** 

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



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/

#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



## Appendix D. Action and Limit Levels for Construction Phase

#### **Air Quality**

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

Table 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)

#### M+ Museum Main Works at West Kowloon Cultural District

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



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

#### **Air Quality**

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

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

Table L-1. EVel	nt and Action Plan for Air ( Action	Quality		
	Action			
Event	ET	IEC	WKCDA	Contractor
Action Level				
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and WKCDA;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and WKCDA; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCDA; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCDA, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the WKCDA on the effectiveness of the proposed remedial measures;</li> <li>Monitor the implementation of</li> </ol>	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

	Action			
Event	ET	IEC	WKCDA	Contractor
	actions and keep IEC, EPD and WKCDA informed of the results.	remedial measures.		
2. Exceedance for two or more consecutive samples	1. Notify IEC, WKCDA, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. 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:

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

Table E-2.	Event and Action Flam of Construction Noise									
	Action									
Event	ET Leader	IEC	WKCDA	Contractor						
Action Level	<ol> <li>Notify WKCDA, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, WKCDA and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	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.	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	1. Submit noise mitigation proposals to IEC and WKCDA; 2. Implement noise mitigation proposals.						
Limit Level	<ol> <li>Inform IEC, WKCDA, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and WKCDA on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	1. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;  4. Supervise the implementation of remedial measures;  5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.						

#### **Landscape and Visual Impact**

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

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

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

#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



#### Appendix F. Monitoring Schedule

### JANUARY 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
					1	2		
3	4	<b>5</b> 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	<b>21</b> AM1, AM2 - 24hrTSP, 1hr TSP x3	22	23		
24	25	26	<b>27</b> 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.						

#### FEBRUARY 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
	1	2 AM1, AM2 - 24hrTSP, 1hr TSP x3	3	4	<b>5</b> AM1, AM2 - 24hrTSP, 1hr TSP x3	6			
7	8	9	10	<b>11</b> AM1, AM2 - 24hrTSP, 1hr TSP x3	12	13			
14	15	16	17 AM1, AM2 - 24hrTSP, 1hr TSP x3	18	19	20			
21	22	<b>23</b> AM1, AM2 - 24hrTSP, 1hr TSP x3	24	25	26	27			
28	29 AM1, AM2 - 24hrTSP, 1hr TSP x3								
		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.							

#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



#### Appendix G. Calibration Certifications

#### <u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

 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 Calibration 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):46.178 Intercept(b): -12.939 Correlation Coefficient(r): 0.9996

Checked by: Date: 21/12/2015

Magnum Fan

#### <u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

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 Calibration 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	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	Correlation Coefficient(r): <u>0.9997</u>
Checked by:		Date: <u>21/12/2015</u>
Magn	um Fan	



#### 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 COLITD.

SERIAL NUMBER CALIBRATION DATE

25-May-2015

2Z6240LD-3B Digital Dust

Indicator

MODEL NUMBER PRODUCT NAME

Report No. 15-0798

# SIBATA SCIENTIFIC TECHNOLOGY LTD. DATE 26/May /2015

APPROVE DY | VERIFIED BY | ISSUED BY



Synt	compare (The m	scale set difference	Stability The max		Measuring the 3 dif	Dust Concentration   Count is		Calibration standard	Sensitivity Count is	Function Test Switch, 1	Testing Category
Synthetic Judgment	compared with the maximum value. (The measurement is repeated three times for one minute.)	scale setting value of the machine and the difference with minimum value are within 5%	The maximum value of the sensitivity adjustment		the 3 different concentration.	Count is $\pm 10\%$ accurate to the master under		standard calibration particle	Count is ±2% accurate to the master by the	Switch, Display, Wiring will nomally function	Judging Standard
				535 CPM	1020 CPM	2079 CPM	813 CPM	Master	Reading of		
Good	OK	88 88 88 88 88 88 88 88 88		524 CPM	994 CPM	1998 CPM	814 CPM	Instrument	Reading of this	OK	Judgment
				-2.1~%	2.5 %	-3.9 %	+0.1 %		Correction		
		23 °C	Temperature	Test atmosphere	0.0	K70 CDM	(c) antre Agrical articles	Deference	Inspection chart		I.,
		45 %	Humidity	nosphere	CT WI	CDM	(C) antre (S)	$V_{\alpha}$ l $_{\alpha\alpha}(\alpha)$	on chart		£1

#### **Equipment Verification Report (TSP)**

#### **Equipment Calibrated:**

Type:

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

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m <sup>3</sup> (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/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)

569 (CPM) 574 (CPM)

#### Linear Regression of Y or X

Slope (K-factor):

0.0014

Correlation Coefficient

0.9863

Date of Issue

24 June 2015

#### Remarks:

- 1. Strong Correlation (R>0.8)
- Factor 0.0014 should be apply for TSP monitoring

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

0.025 0.02 0.015 0.01 y = 0.0014x - 0.0008 $R^2 - 0.9728$ 0.005 10 20

Operator: Donald Kwok

Signature:

24 June 2015

Ben Tam

Signature:

Date:



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

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0121 1.0078 1.0057 1.0047 0.9994	0.6999 0.9785 1.0955 1.1443 1.3805	1.4258 2.0163 2.2543 2.3644 2.8515		0.9958 0.9916 0.9895 0.9885 0.9833	0.6886 0.9627 1.0779 1.1258 1.3582	0.8784 1.2422 1.3888 1.4566 1.7568
Qstd slo intercep coeffici  v axis =	t (b) = ent (r) =	2.09532 -0.03812 0.99994 	 	Qa slor intercer coeffici	ot (b) =	1.31205 -0.02349 0.99994 

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

#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016

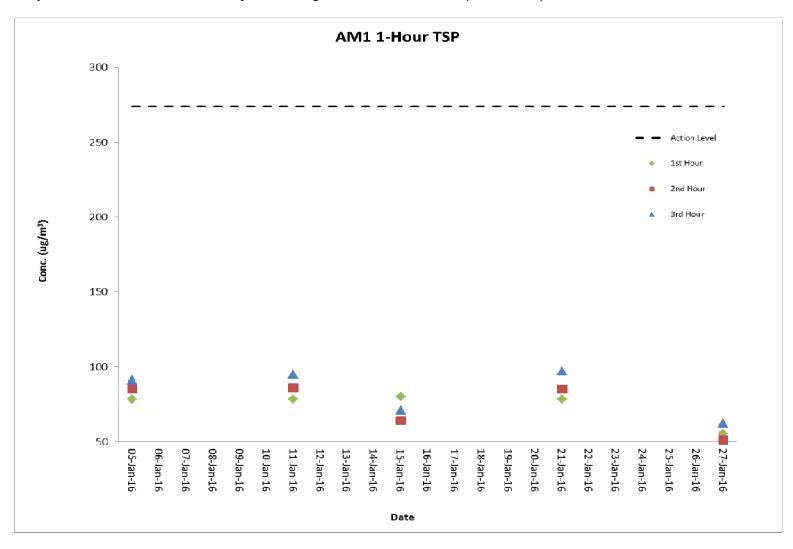


# Appendix H. Graphical Plots of the Monitoring Results

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

			C	Conc. (μg/m	<sup>3</sup> )	Action	Limit		
Date	Weather Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	Level (μg/m³)	Level (μg/m³)	Min	Max
05-Jan-16	Cloudy	10:30 - 15:00	78	85	91	273.7	500		
11-Jan-16	Fine	10:20 - 15:00	78	86	95	273.7	500		
15-Jan-16	Rainy	8:00 - 12:00	80	64	71	273.7	500	51	97
21-Jan-16	Rainy	10:30 - 16:00	78	85	97	273.7	500		
27-Jan-16	Rainy	10:43 - 16:00	55	51	62	273.7	500		

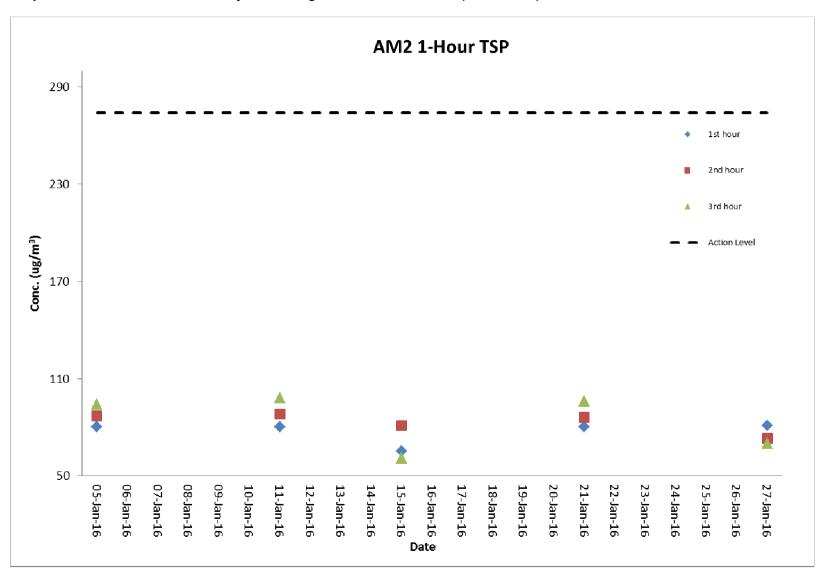
#### **Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)**



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

			C	Conc. (μg/m	<sup>3</sup> )	Action	Limit		
	Weather		c+	nd	rd	Level	Level		
Date	Condition	Time	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour	$(\mu g/m^3)$	(μg/m³)	Min	Max
05-Jan-16	Cloudy	10:45 - 15:10	80	87	94	274.2	500		
11-Jan-16	Fine	10:32 - 15:10	80	88	98	274.2	500		
15-Jan-16	Rainy	8:12 - 15:10	65	81	61	274.2	500	61	98
21-Jan-16	Cloudy	10:40 - 16:10	80	86	96	274.2	500		
27-Jan-16	Rainy	10:55 - 16:10	81	73	70	274.2	500		

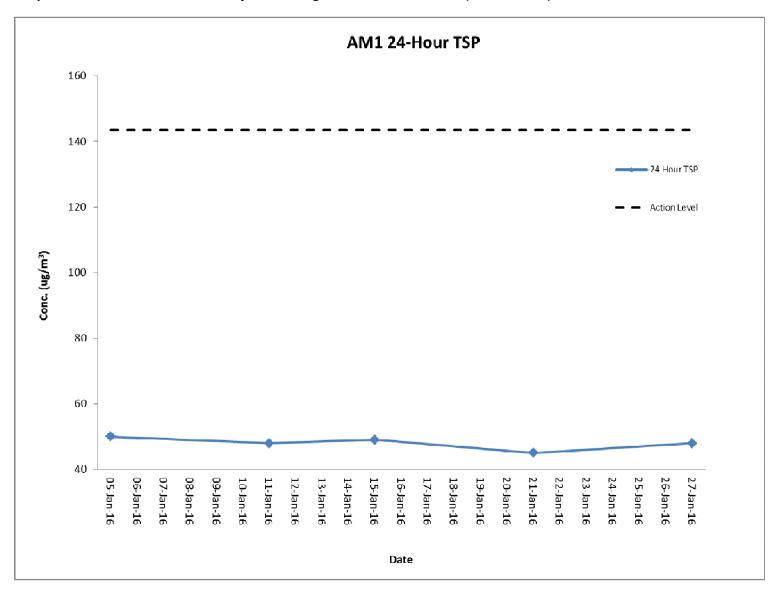
#### **Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)**



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

Start Finish		- la	I			ed Time		Flow Rate (m <sup>3</sup> /min)							
Date	Start Finish Filter Weight (g) Reading  Date Time Date Time Initial Final Initial Final		Sampling Time (hrs)	Initial	<u> </u>		Conc. (μg/m³)	Weather Condition	Action Level	Limit Level					
05-Jan-16	10:33	06-Jan-16	10:33	2.8086	2.8966	18912.38	18936.38	24	1.23	1.23	1.23	50	Cloudy	143.6	260
11-Jan-16	10:22	12-Jan-16	10:22	2.8055	2.89	18936.38	18960.38	24	1.23	1.23	1.23	48	Fine	143.6	260
15-Jan-16	08:02	16-Jan-16	08:02	2.8145	2.9007	18960.38	18984.38	24	1.23	1.23	1.23	49	Rainy	143.6	260
21-Jan-16	10:28	22-Jan-16	10:28	2.7819	2.861	18984.38	19008.38	24	1.23	1.23	1.23	45	Cloudy	143.6	260
27-Jan-16	10:45	28-Jan-16	10:45	2.7785	2.864	19008.38	19032.38	24	1.23	1.23	1.23	48	Rainy	143.6	260

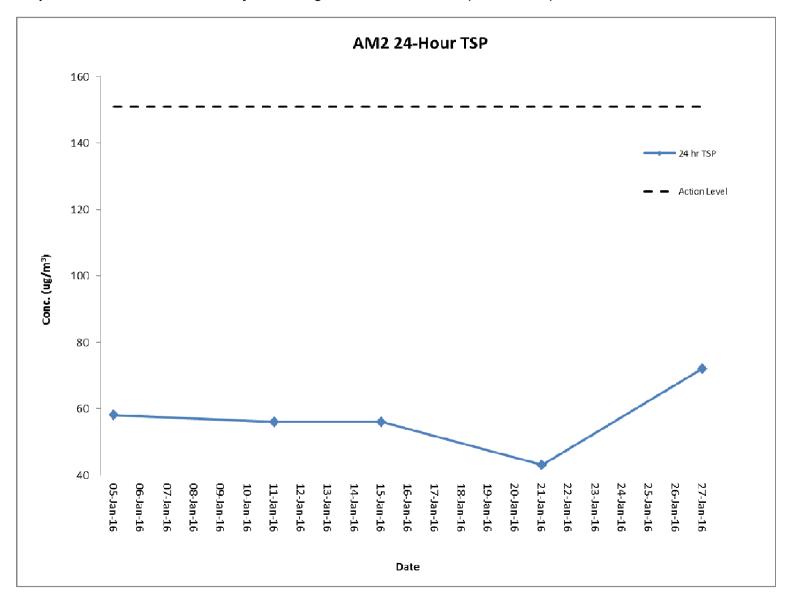
#### **Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)**



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

Start		Finish Filte		Elapsed Time Filter Weight (g) Reading			Sampling	Flow Rate (m³/min)			Conc.	Weather	Action	Limit	
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(μg/m³)	Condition	Level	Level
05-Jan-16	10:43	06-Jan-16	10:43	2.8033	2.906	14615.59	14639.59	24	1.24	1.24	1.24	58	Cloudy	151.1	260
11-Jan-16	10:36	12-Jan-16	10:36	2.7999	2.9001	14639.59	14663.59	24	1.24	1.24	1.24	56	Fine	151.1	260
15-Jan-16	08:15	16-Jan-16	08:15	2.8097	2.91	14663.59	14687.59	24	1.24	1.24	1.24	56	Rainy	151.1	260
21-Jan-16	10:38	22-Jan-16	10:38	2.7888	2.8664	14687.59	14711.59	24	1.24	1.24	1.24	43	Cloudy	151.1	260
27-Jan-16	10:58	28-Jan-16	10:58	2.7599	2.8893	14711.59	14735.59	24	1.24	1.24	1.24	72	Rainy	151.1	260

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



#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016

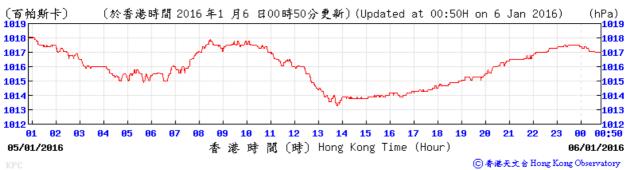


# Appendix I. Meteorological Data Extracted from Hong Kong Observatory

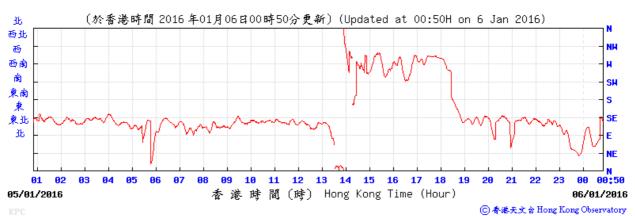
Table I-1: Extract of Meteorological Observations for King's Park Automatic Weather Station, January 2016

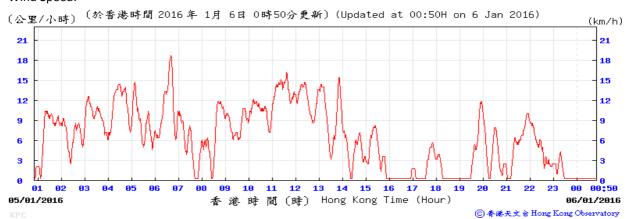


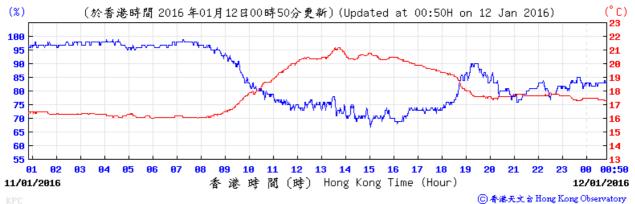
#### Pressure:



#### Wind Direction:





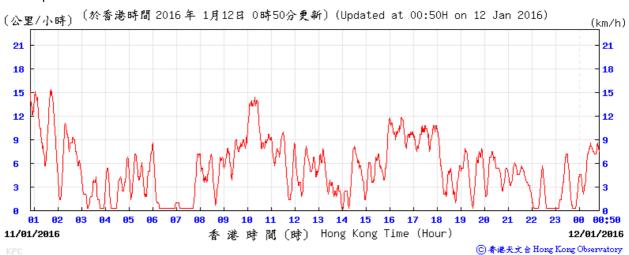


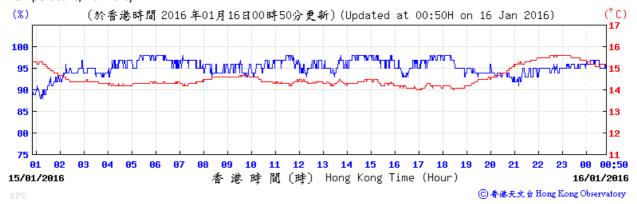
#### Pressure:



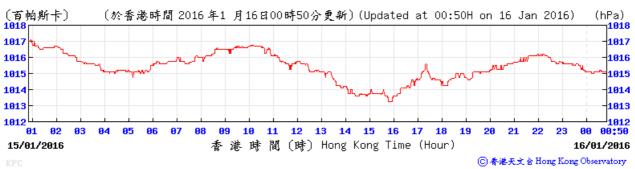
#### Wind Direction:



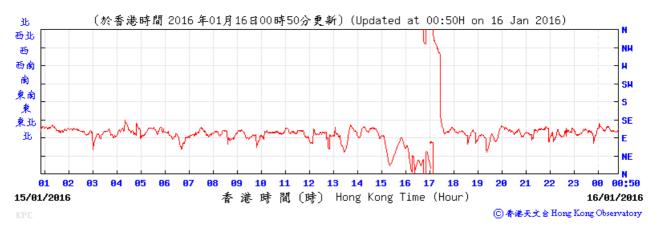


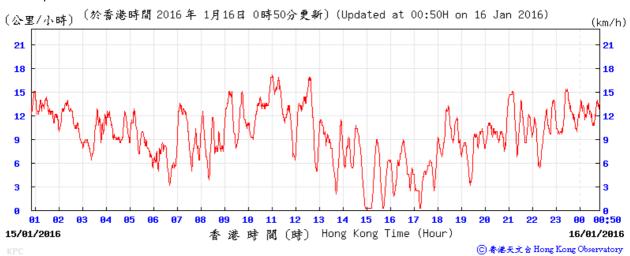


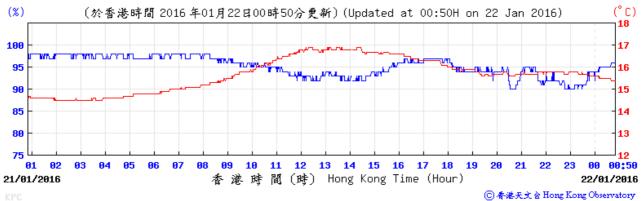
#### Pressure:



#### Wind Direction:



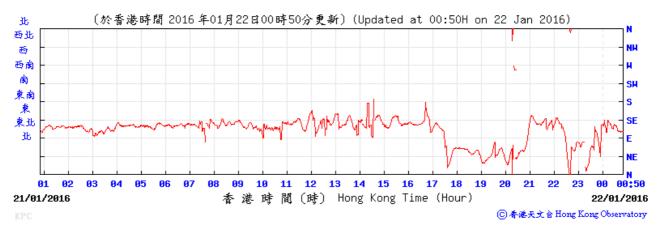


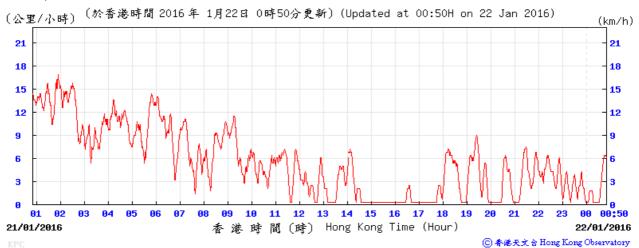


#### Pressure:

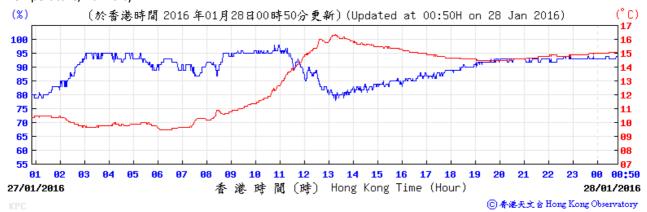


#### Wind Direction:





#### Temperature/Humidity:



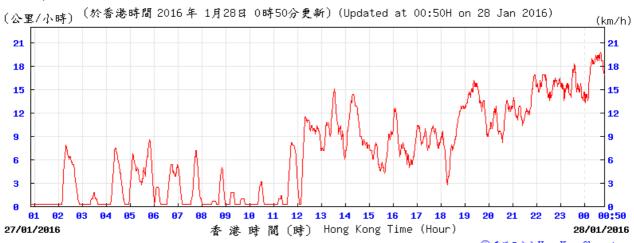
#### Pressure:



#### Wind Direction:



#### Wind Speed:



#### M+ Museum Main Works at West Kowloon Cultural District Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016



### Appendix J. Waste Flow table

**Table J-1 Monthly Waste Flow Table** 

		Actual Quantities of Inert C&D Materials (excluding ecavated waste) (tonnes) e.g. broken concrete				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	21,077.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	23.2
Feb 2016											
Mar 2016											
Apr 2016											
May 2016											
Jun 2016											
Jul 2016											
Aug 2016											
Sep 2016					<del></del>						
Oct 2016											
Nov 2016											
Dec 2016			-		·					-	
Total	97,316.3	21.4	0.0	21.4	0.0	0.0	76.2	0.0	1.0	156.8	233.9

#### Note:

Quantities of diposal/ resue/ storage of excavated waste since the commencement of the Project:

Site of Disposal/ Reuse/ Storage	Quantities (tonnes)
Fill Bank at Tuen Mun Area 38	11,455.0
Fill Bank at Tseung Kwan O Area 137	27,093.3
Green Valley	34,144.0
Advance Works for Shek Wu Hui Sewage Treatment Works	11,952.0
Design and Construction of Kai Tak Cable Tunnel, CLP	720.0
MTR Contract 1002 Whampoa Station and Overrun Tunnel	5,600.0
M+ Stockpile (M66, storage site near M+)	2,880.0
Hsin Chong Stockpile (Storage site near M+)	3,472.0
Total	97,316.3

<sup>1.</sup> A total of 21.4 tons of Grouting material was reused in other projects

#### M+ Museum Main Works at West Kowloon Cultural District

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



## Appendix K. Environmental Mitigation Measures – Implementation Status

Table K-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage
Air Quality Ir	npact (Construction)	
2.1 & 10.3.1	General Dust Control Measures	
	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓
2.1 & 10.3.1	Best Practice For Dust Control	
	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:	
	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 byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Obs
	Disturbed Parts of the Roads	
	<ul> <li>Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> </ul>	✓
	<ul> <li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul>	Rem
	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	

EM9 A D-6		Implementation Stage
EM&A Ref.	<ul> <li>Recommendation Measures</li> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>	√ v
	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.	✓
	■ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	<b>√</b>
	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.	✓
	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.	<b>✓</b>
	Use of vehicles	✓
	■ The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.	
	Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	✓
	Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.	✓
	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.	✓
2.1 & 10.3.1	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	✓

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	✓
	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	<b>√</b>
Noise Impac	(Construction)	
3.1 & 10.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	
	<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	✓
	machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;	✓
	plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;	✓
	■ mobile plant should be sited as far away from NSRs as possible; and	✓
	material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	✓
3.1 & 10.4.1	Adoption of Quieter PME	
	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in <b>Table 4.26</b> in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	N/A
3.1 & 10.4.1	Use of Movable Noise Barriers  Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	<b>√</b>

EM&A Ref.	Recommendation Measures	Implementation Stage
3.1 & 10.4.1	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 & 10.4.1	Use of Noise Insulating Fabric  Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	✓
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods  During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A
Water Qualit	y Impact (Construction)	
4.1 & 10.5.1	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;	Obs
	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.	<b>√</b>
	■ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of	

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.	<b>~</b>
	<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.</li> </ul>	Obs
	Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.	•
	Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	<b>✓</b>
	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:	
	<ul> <li>All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> </ul>	N/A
	<ul> <li>Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;</li> </ul>	N/A
	<ul> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of</li> </ul>	N/A

		landomontotion Ctore
EM&A Ref.	Recommendation Measures	Implementation Stage
	<ul> <li>material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A
4.1 & 10.5.1	Sewage effluent from construction workforce	
	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓
4.1 & 10.5.1	General construction activities	
	<ul> <li>Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used.</li> </ul>	Obs
	Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	Obs
Waste Manaç	gement Implications (Construction)	
6.1 & 10.7.1	Good Site Practices	
	Recommendations for good site practices during the construction activities include:	
	<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site</li> </ul>	✓
	<ul> <li>Training of site personnel in proper waste management and chemical handling procedures</li> </ul>	✓
	<ul> <li>Provision of sufficient waste disposal points and regular collection of waste</li> </ul>	, ✓
	<ul> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> </ul>	✓
	<ul> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> </ul>	<b>√</b>
	<ul> <li>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&amp;D materials is not anticipated</li> </ul>	✓
6.1 & 10.7.1	Waste Reduction Measures	

EM&A Ref.	Recommendation Measures	Implementation Stage
	Recommendations to achieve waste reduction include:	
	<ul> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> </ul>	✓
	<ul> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> </ul>	✓
	<ul> <li>Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force</li> </ul>	✓
	■ Proper site practices to minimise the potential for damage or contamination of inert C&D materials	,
	<ul> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste</li> </ul>	<b>√</b> ✓
6.1 & 10.7.1	Inert and Non-inert C&D Materials	
	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	✓
	<ul> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> </ul>	✓
	■ 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.	✓
	<ul> <li>The C&amp;D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</li> </ul>	✓
	■ 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 & 10.7.1	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.	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.	Obs
6.1 & 10.7.1	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 Contar	nination (Construction)	
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials.	
	The following measures are proposed for excavation and transportation of contaminated material:	
	<ul> <li>To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> </ul>	N/A
	<ul> <li>Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site;</li> </ul>	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
	<ul> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust</li> </ul>	
	<ul><li>emissions and/or release of contaminated wastewater;</li><li>Truck bodies and tailgates should be sealed to stop any discharge;</li></ul>	N/A
	<ul> <li>Only licensed waste haulers should be used to collect and transport contaminated material to</li> </ul>	N/A
	treatment/disposal site and should be equipped with tracking system to avoid fly tipping;	N/A
	<ul> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> </ul>	N1/A
	Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap	N/A
	354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and	N/A
	<ul> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	
		N/A
Ecological li	mpact (Construction)	
	No mitigation measure is required.	
Landscape a	and Visual Impact (Construction)	
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A
Table 9.1 &	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage
10.8 (CM6)		
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A
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 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	<b>√</b>
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	<b>✓</b>
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

#### M+ Museum Main Works at West Kowloon Cultural District

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



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

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 31 October 2015) 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	0	0	0
From 31 October 2015 to end of the reporting month	1	0	0