

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10  
Organic Waste Treatment Facilities  
Phase 1:  
*Sixth Quarterly EM&A Summary  
Report*

1 September 2016 – 30 November 2016

**Environmental Resources Management**

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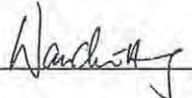


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Phase 1:  
*Sixth Quarterly EM&A Summary  
Report*

1 September 2016 - 30 November 2016

Reference 0279222

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by:	
	(Environmental Team Leader - Mandy To)
Certified by:	
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Date:	20 December 2016

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# 1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by OSCAR Bioenergy Joint Venture (the Contractor) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the *Contract No. EP/SP/61/10 of Organic Waste Treatment Facilities Phase I (the Project)*.

## 1.1 PURPOSE OF THE REPORT

This is the sixth quarterly EM&A summary report, which summarizes the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 September 2016 to 30 November 2016**.

## 1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

### Section 1 : **Introduction**

It details the scope and structure of the report.

### Section 2 : **Project Information**

It summarises background and scope of the Project, site description, project organization, construction programme, the construction works undertaken and the status of Environmental Permits (EP)/licences over the construction phase of the Project.

### Section 3 : **Environmental Monitoring Requirements**

It summarises the environmental monitoring including monitoring parameters, monitoring programmes, monitoring frequency, monitoring locations, Action and Limit Levels, Event/ Action Plans, environmental mitigation measures as recommended in the approved EIA report, EP and relevant environmental requirements stated in the Contract Specification.

### Section 4 : **Implementation Status on Environmental Mitigation Measures**

It summarises the implementation of environmental protection measures during the reporting period.

### Section 5 : **Waste Management**

It summarises the quantity of public fill and construction waste generated in the reporting period

### Section 6 : **Environmental Site Inspection**

It summarises the audit findings of the weekly site inspections undertaken within the reporting period.

### Section 7 : **Environmental Non-conformance**

It summarises any exceedance of environmental performance standard, and environmental complaints and environmental summons received within the reporting period.

Section 8 : **Conclusions**

**2.1*****BACKGROUND***

The Organic Waste Treatment Facilities (OWTF) Phase I development (hereinafter referred to as “the Project”) is to design, construct and operate a biological treatment facility with a capacity of about 200 tonnes per day and convert source-separated organic waste from commercial and industrial sectors (mostly food waste) into compost and biogas through proven biological treatment technologies.

The environmental acceptability of the construction and operation of the Project had been confirmed by findings of the associated Environmental Impact Assessment (EIA) Study completed in 2009. The Director of Environmental Protection approved this EIA Report under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) in February 2010 (Register No.: AEIAR-149/2010) (hereafter referred to as the approved EIA Report). Subsequent Report on Re-assessment on Environmental Implications and Report on Re-assessment on Hazard to Life Implications were completed in 2013, respectively.

An Environmental Permit (EP) (No. EP-395/2010) was issued by the Environmental Protection Department (EPD) to the EPD, the Permit Holder, on 21 June 2010 and varied on 18 March 2013 (No. EP-395/2010/A) and 21 May 2013 (No. EP-395/2010/B), respectively. The Design Build and Operate Contract for the OWTF (Contract No. EP/SP/61/10 Organic Waste Treatment Facilities Phase I (the Contract)) was awarded to SITA Waste Services Limited, ATAL Engineering Limited and Ros-Roca, Sociedad Anonima jointly trading as the OSCAR Bioenergy Joint Venture (OSCAR or the Contractor). A Further EP (No. FEP-01/395/2010/B) was issued by the EPD to the OSCAR on 16 February 2015. Variation to both EPs No. EP-395/2010/B and No. FEP-01/395/2010/B were made in December 2015. The latest EPs, No. EP-395/2010/C and No. FEP-01/395/2010/C, were issued by the EPD on 21 December 2015.

Under the requirements of Condition 5 of the EP (No. FEP-01/395/2010/C), an Environmental Monitoring and Audit (EM&A) programme as set out in the Agreement No. CE7/2008 (EP) EM&A Manual (hereinafter referred to as EM&A Manual) is required to be implemented. ERM-Hong Kong, Ltd (ERM) has been appointed by OSCAR as the Environmental Team (ET) to undertake the EM&A programme for the Contract.

The construction works commenced on 21 May 2015 and are scheduled for completion by September 2017.

## 2.2 GENERAL SITE DESCRIPTION

The Project Site is located at Siu Ho Wan in North Lantau with an area of about 2 hectares. The layout of the upgrading works is illustrated in *Annex A*.

## 2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in the reporting period is shown *Table 2.1*. The locations of the construction activities are shown in *Annex B*. The construction programme of the Project is presented in *Annex C*.

**Table 2.1** *Summary of Construction Activities Undertaken in the Reporting Period*

<b>Construction Activities Undertaken</b>
<ul style="list-style-type: none"><li>• Building 1 – superstructure works, water tanks construction.</li><li>• Building 2 – defect rectification, ABWF and finishing work, steel work for covered walkway, installation of pump and pipework at roof, Electrical and BS installation work.</li><li>• Building 3 – superstructure works, ABWF, Electrical and BS installation inside G/F rooms.</li><li>• AD Tank – Erection of AD 3 and Suspension Buffer Tank, testing, scaffolding erection and cladding work to AD 1, water filling to AD2.</li><li>• Biogas Holder &amp; Plant Area –erection of De-sulphurisation tank 1 &amp; 2, blowers, standby flare, carbon filter.</li><li>• Ammonia Stripping Plant –structural steel and mechanical erection work.</li><li>• Mechanical installation (guide rail) at Building 1.</li><li>• Tiles installation inside tunnel of Building 2.</li><li>• CHP area: Erection of CHP 1,2,3.</li><li>• Sitewide – Underground drainage and drawpit work.</li><li>• Portion 2 – temp. traffic arrangement, roadworks.</li><li>• Portion 4 – Material handling and storage, steel bending &amp; cutting.</li></ul>

## 2.4 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The project organisation chart and contact details are shown in *Annex D*.

## 2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in *Table 2.2*.

**Table 2.2** *Summary of Environmental Licensing, Notification and Permit Status*

<b>Permit/ Licenses/ Notification</b>	<b>Reference</b>	<b>Validity Period</b>	<b>Remarks</b>
Environmental Permit	FEP-01/395/2010/C	Throughout the Contract	Permit granted on 21 December 2015
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation	Ref No. 386715	Throughout the Contract	-
Effluent Discharge License	WT00021482-2015	21 May 2015 – 31 May 2020	Approved on 21 May 2015
Construction Noise Permit -P1&P2	GW-RW0146-16	28 March 2016 – 27 September 2016	Approved on 21 March 2016
Construction Noise Permit-P1&P2	GW-RW0483-16	12 September 2016 – 11 December	Approved on 22 August 2016
Construction Noise Permit – P3	GW-RW0272-16	1 June 2016 – 30 November 2016	Approved on 17 May 2016
Chemical Waste Producer Registration	WPN 5213-961-O2231-01	Throughout the Contract	Approved on 29 April 2015
Waste Disposal Billing Account	Account number: 702310	Throughout the Contract	-

***ENVIRONMENTAL MONITORING REQUIREMENT, ENVIRONMENTAL MITIGATION MEASURES***

All the relevant environmental mitigation measures listed in the EIA Report and EM&A Manual are summarised in *Annex E*.

According to the EM&A Manual and EP requirement, no air quality, noise and water quality monitoring is required.

Bi-weekly landscape and visual audit is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved.

## ***IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS***

The Contractor has implemented environmental mitigation measures and requirements as stated in the approved EIA Report and EM&A Manual. The implementation status of the measures during the reporting period is summarised in *Annex E*.

Wastes generated from this Project include inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction waste). Construction waste comprises general refuse, metals and paper/cardboard packaging materials. Metals generated from the Project are also grouped into construction waste as the materials were not disposed of with others at public fill. Reference has been made to the Monthly Summary Waste Flow Table prepared by the Contractor (see *Annex F*). With reference to the relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in *Table 5.1*.

**Table 5.1** *Quantities of Waste Generated from the Project*

Month / Year	Quantity			
	Total Inert C&D Materials Generated <sup>(a)</sup>	Non-inert C&D Materials <sup>(b)</sup>		
		C&D Materials Recycled <sup>(c)</sup>	C&D Waste Disposed of at Landfill <sup>(d)</sup>	Chemical Waste
September 2016	324.35 tonnes	59,580.00 kg	138.25 tonnes	0 L
October 2016	1561.82 tonnes	49,300.00 kg	114.47 tonnes	0 L
November 2016	897.23 tonnes	123,000.00 kg	154.22 tonnes	0 L

**Notes:**

- (a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 2783.4 tonnes of inert C&D material were generated from the Project, of which 39 tonnes were reused in this Contract and the remaining 2,724.56 tonnes were disposed as public fill to Fill Banks at Tuen Mun Area 38 and 19.84 tonnes were disposed to Tseung Kwan O Area 137. The detailed waste flow is presented in *Annex F*.
- (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
- (c) 96,800.00 kg of metals, 135,080.00 kg of papers/ cardboard packing and 0.00 kg of plastics were sent to recyclers for recycling during the reporting period.
- (d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at NENT Landfill by subcontractors.

### 6.1 WEEKLY SITE AUDITS

Thirteen site inspections were conducted during the reporting period. There was no non-compliance recorded during the site inspections. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent weekly site inspections conducted in the reporting period.

#### *September 2016*

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 5, 12, 21 and 26 September 2016. The IEC was also present at the joint inspection on 21 September 2016.

#### *October 2016*

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 3, 11, 19, 24 and 31 October 2016. The IEC was also present at the joint inspection on 19 October 2016.

#### *November 2016*

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 7, 16, 21 and 28 November 2016. The IEC was also present at the joint inspection on 16 November 2016.

### 6.2 LANDSCAPE AND VISUAL AUDIT

Seven landscape and visual monitoring site inspections were conducted during the reporting period. Follow-up actions needed to be implemented were recommended to the Contractor and the status of the follow-up actions was reviewed during the subsequent weekly site inspections. It was confirmed that most of the necessary landscape and visual mitigation measures as summarised in *Annex E* were implemented by the Contractor.

In accordance with the EM&A Manual, bi-weekly landscape and visual inspection is required to ensure that the design, implementation and maintenance of landscape and visual mitigation measures recommended in the EIA Report are fully achieved. The onsite inspection of the landscape and visual mitigation measures has commenced since June 2015 during weekly site inspections.

#### *September 2016*

Bi-weekly site inspections were conducted on 12 and 26 September 2016.

*October 2016*

Bi-weekly site inspections were conducted on 3, 19 and 31 October 2016.

*November 2016*

Bi-weekly site inspections were conducted on 7 and 21 November 2016.

Key landscape and visual mitigation measures implemented in the reporting period included:

- Provide insect prevention measures to the exposed root of retained tree to prevent potential damage due to the exposure.
- Provide the non-moisture holding material around the trees to prevent potential damage.
- Avoid placing machine near the tree protection zone.

### **6.3**

#### ***EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING***

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimizing environmental impacts.

The EM&A for the Project was conducted as scheduled during the reporting period. No non-compliance events were observed during site inspections and no exceedances were recorded during this reporting period. The EM&A programme is considered effective.

## 7 ENVIRONMENTAL NON-CONFORMANCE

### 7.1 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

One non-compliance event was recorded during the last reporting period, which was on 25 August 2016 9:45 in the morning. During cleaning of the waste water treatment tanks, a worker inadvertently allowed the cleaning water to flow out to the DSD Nullah without passing through the waste water treatment facilities. The contractor has been implementing remedial works and follow-up actions and will be completed shortly. The Investigation Report is shown in *Annex H*.

### 7.2 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period. The cumulative environmental complaint log is shown in *Annex G*.

### 7.3 SUMMARY OF ENVIRONMENTAL SUMMON AND SUCCESSFUL PROSECUTION

No summon/prosecution was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex G*.

This EM&A Report presents the EM&A works undertaken during the reporting period from 1 September 2016 to 30 November 2016 in accordance with EM&A Manual and requirements of EP (FEP-01/395/2010/C).

No air quality, noise and water quality monitoring is required.

Bi-weekly landscape and visual monitoring was conducted in this quarterly period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor. Follow-up actions would be implemented by the Contractor to improve protection measures on the retained or to-be transplanted trees.

No non-compliance event was recorded during the reporting period.

No complaint and summons/prosecution was received during the reporting period.

The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures in the coming periods.

## EXECUTIVE SUMMARY

The construction works of *No. EP/SP/61/10 Organic Waste Treatment Facilities Phase I (the Project)* commenced on 21 May 2015. This is the sixth quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 September 2016 to 30 November 2016 in accordance with the EM&A Manual.

### Environmental Monitoring and Audit Progress

A summary of the monitoring activities undertaken in this reporting period is listed below:

- Joint Environmental Site Inspection 13 times
- Landscape & Visual Monitoring 7 times

### Waste Management

Waste generated from this Project includes inert construction and demolition (C&D) materials (public fill) and non-inert C&D materials (construction wastes).

### Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance was recorded during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint and summon/prosecution was received in this reporting period.

Annex A

## Project Layout



6.3

TS

Green area

P

L M

J

B

9

10

11

12

13

14

15

M

N 16

17

18

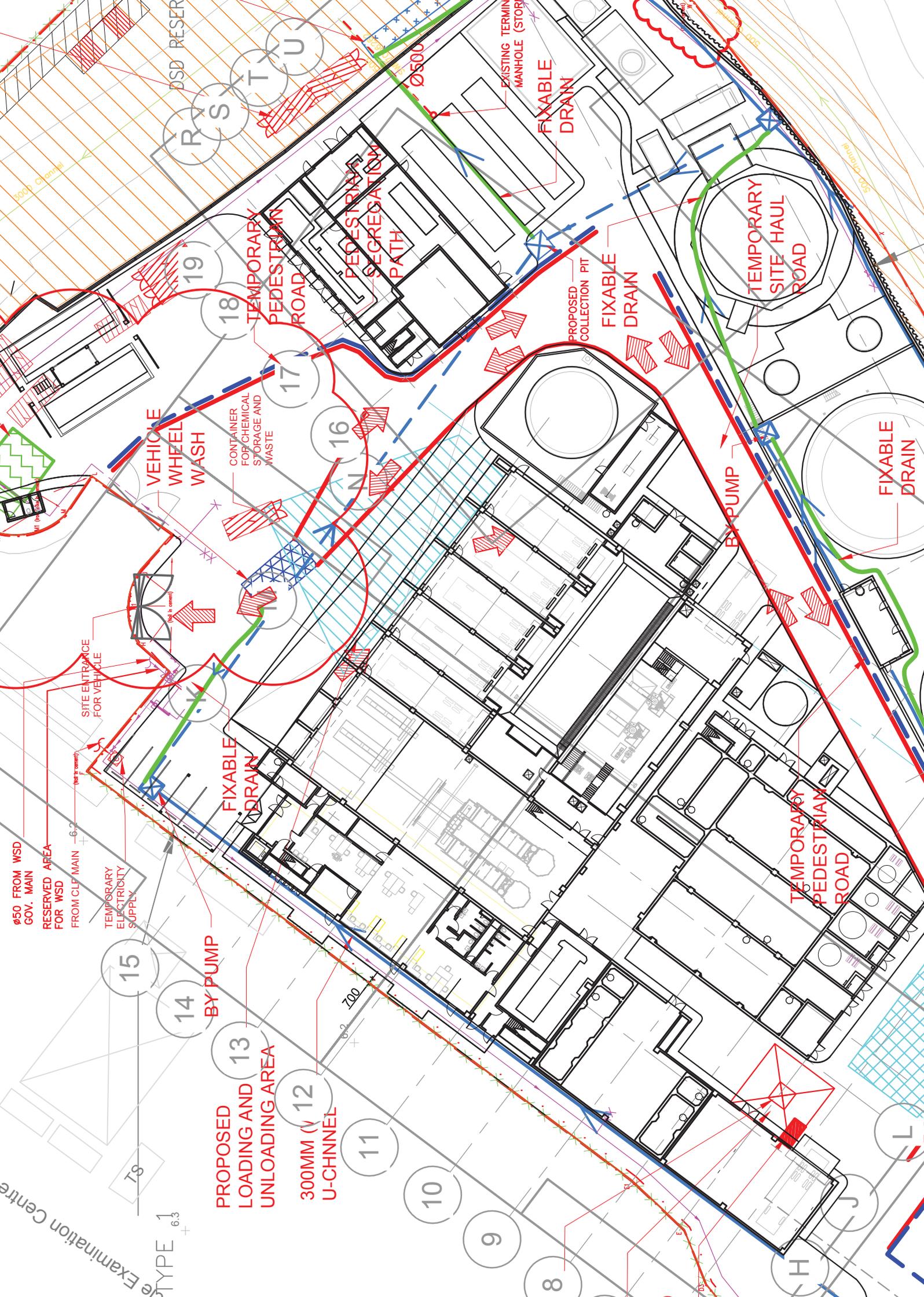
19

R S

T U

Annex B

## Works Location



Ø50 FROM WSD GOV. MAIN RESERVED AREA FOR WSD FROM CLP MAIN 6.2 TEMPORARY ELECTRICITY SUPPLY

Examination Centre  
 TYPE 1  
 6.3

BY PUMP  
 PROPOSED LOADING AND UNLOADING AREA

300MM (V 12) U-CHANNEL

TEMPORARY PEDESTRIAN ROAD  
 PEDESTRIAN SEGREGATION PATH

VEHICLE WHEEL WASH  
 CONTAINER FOR CHEMICAL STORAGE AND WASTE

FIXABLE DRAIN

FIXABLE DRAIN

FIXABLE DRAIN

BYPUMP

TEMPORARY PEDESTRIAN ROAD

TEMPORARY SITE HAUL ROAD

FIXABLE DRAIN

PROPOSED COLLECTION PIT

EXISTING TERMINATING MANHOLE (STOR)

Ø5000

WSD RESER  
 GOV. MAIN

5000 Channel

Build 005

15

14

13

12

11

10

9

8

19

18

17

16

15

14

13

12

11

10

9

8

H

J

L

R S T U

WSD RESER

5000 Channel

Build 005

Annex C

## Construction Programme of the Project



Task ID	Task Name	Start Date	End Date	Duration	Progress %	Completion Date	Dependencies	Notes
420	08-Oct-16	18-Nov-16	30-Sep-16 A	36d		136d		
421	08-Oct-16	18-Nov-16	30-Sep-16 A	36d		136d		
140	08-Oct-16	21-Oct-16	03-Sep-16 A	0d	100%			IC checks & comments on Process Commissioning Plan
7d	29-Oct-16	28-Oct-16	12-Nov-16 A	15d	0%	136d		Revise & resubmit Process Commissioning Plan
7d	29-Oct-16	04-Nov-16	03-Dec-16	7d	0%	136d		IC checks & certifies Process Commissioning Plan
0d	18-Nov-16	18-Nov-16	0d	0d	0%	136d		Employer Consents to Process Commissioning Plan
36d	21-Jun-16	02-Aug-16	06-Dec-16	34d		162d		
36d	21-Jun-16	02-Aug-16	17-Jan-17	34d		162d		
1d	21-Jun-16	21-Jun-16	06-Dec-16*	1d	0%	133d		Submission of Operation Plan
14d	22-Jun-16	05-Jul-16	07-Dec-16	14d	0%	202d		IC checks & comments on Operation Plan
7d	06-Jul-16	12-Jul-16	21-Dec-16	7d	0%	202d		Revise & resubmit Operation Plan
7d	13-Jul-16	19-Jul-16	28-Dec-16	7d	0%	202d		IC checks & certifies Operation Plan
0d	02-Aug-16	02-Aug-16	0d	0d	0%	202d		Employer Consents to Operation Plan
42d	12-Nov-16	23-Dec-16	30-Sep-16 A	36d		136d		
42d	12-Nov-16	23-Dec-16	30-Sep-16 A	36d		136d		
14d	12-Nov-16	25-Nov-16	30-Sep-16 A	0d	100%			IC checks & comments on Plant Commissioning Plan
7d	26-Nov-16	02-Dec-16	12-Nov-16 A	15d	0%	136d		Revise & resubmit Plant Commissioning Plan
7d	03-Dec-16	09-Dec-16	03-Dec-16	7d	0%	136d		IC checks & certifies Plant Commissioning Plan
0d	23-Dec-16	23-Dec-16	23-Dec-16	0d	0%	136d		Employer Consents to Plant Commissioning Plan
0d	07-Oct-16	07-Oct-16	21-Mar-16 A	146d		185d		
0d	07-Oct-16	07-Oct-16	21-Mar-16 A	146d		185d		
0d	07-Oct-16	07-Oct-16	21-Mar-16 A	146d		185d		
0d	07-Oct-16	07-Oct-16	21-Mar-16 A	146d		185d		
0d	07-Oct-16	07-Oct-16	13-Jan-17	0d	0%	146d		End Date of Access
0d	20-Jun-15	15-Aug-15	21-Mar-16 A	184d	49.59%	225d		
24d	20-Jun-15	15-Aug-15	27-Jun-15 A	0d		-349d		
24d	20-Jun-15	15-Aug-15	27-Jun-15 A	0d		-349d		
24d	20-Jun-15	15-Aug-15	27-Jun-15 A	0d		-349d		
24d	20-Jun-15	15-Aug-15	27-Jun-15 A	0d		-349d		
24d	20-Jun-15	15-Aug-15	27-Jun-15 A	0d	100%			Submit Tree preservation, transplanting and felling proposal to LandsD and EPD (Natural Terrain - thru ER)
222d	28-May-15	23-Feb-16	28-Mar-15 A	72d		259d		
203d	18-Jun-15	23-Feb-16	28-Mar-15 A	52d		279d		
34d	18-Jun-15	30-Jul-15	09-Dec-16	33d		279d		
34d	18-Jun-15	30-Jul-15	09-Dec-16	33d		279d		
0d	18-Jun-15	18-Jun-15	0d	0d	0%	-5d		Submit General Building Plans to IC, ER & Employer
14d	19-Jun-15	02-Jul-15	10-Dec-16	14d	0%	-540d		IC checks & comments on General Building Plans
7d	03-Jul-15	09-Jul-15	24-Dec-16	7d	0%	-540d		Revise & resubmit General Building Plans to IC, ER & Employer
7d	10-Jul-15	16-Jul-15	31-Dec-16	7d	0%	-540d		IC checks & certifies General Building Plans
0d	30-Jul-15	30-Jul-15	0d	0d	0%	-540d		Employer Consents to General Building Plans
28d	15-Jul-15	11-Aug-15	28-Mar-15 A	64d		345d		
28d	15-Jul-15	11-Aug-15	28-Mar-15 A	64d		345d		
7d	15-Jul-15	21-Jul-15	28-Mar-15 A	22d	60%	-507d		Revise & resubmit Detailed Design of Fire Safety Strategy Report to IC, ER & Employer
7d	22-Jul-15	28-Jul-15	10-Dec-16	7d	0%	-507d		IC checks & certifies Detailed Design of Fire Safety Strategy Report
0d	11-Aug-15	11-Aug-15	0d	0d	0%	-528d		Employer Consents to Detailed Design of Fire Safety Strategy Report
64d	04-Dec-15	23-Feb-16	23-Nov-16	43d		7d		
64d	04-Dec-15	23-Feb-16	23-Nov-16	43d		7d		
20d	04-Dec-15	04-Jan-16	24-Nov-16	20d	0%	-241d		Prepare & submit NTH Mitigation Method of Construction
14d	05-Jan-16	18-Jan-16	22-Dec-16	14d	0%	-352d		IC checks & certifies Method of Construction
0d	04-Jan-16	04-Jan-16	0d	0d	0%	-221d		GEO - Approval of NTH Mitigation Design
0d	05-Jan-16	05-Jan-16	28-Nov-16*	0d	0%	-27d		Submit NTH Mitigation Design to IC, ER & Employer
14d	06-Jan-16	19-Jan-16	29-Nov-16	14d	0%	8d		IC checks & comments on NTH Mitigation Design
7d	20-Jan-16	26-Jan-16	13-Dec-16	7d	0%	-328d		Revise & resubmit NTH Mitigation Design to IC, Employer & ER
14d	27-Jan-16	09-Feb-16	20-Dec-16	14d	0%	8d		IC checks & certifies NTH Mitigation Design
0d	23-Feb-16	23-Feb-16	0d	0d	0%	8d		Employer Consents to NTH Mitigation Design

Task ID	Task Name	Start Date	End Date	Duration (Days)	Progress (%)	Current Status	Next Milestone	Notes
36d	Method of Construction for CAPC Slack - Steel Support	14-Sep-15	28-Oct-15	35d	100%	Completed	30-Dec-16	-349d
21d	Method of Construction of CAPC Slack - Steel Support	14-Oct-15	14-Oct-15	1d	0%	Not Started	16-Dec-16	-293d
14d	Method of Construction of CAPC Slack - Steel Support	15-Oct-15	28-Oct-15	14d	0%	Not Started	30-Dec-16	-429d
36d	Method of Construction for CAPC Slack - Steel Support	20-Aug-15	02-Oct-15	36d	100%	Completed	02-Jan-17	-371d
36d	Method of Construction for CAPC Slack - Steel Support	20-Aug-15	02-Oct-15	36d	100%	Completed	02-Jan-17	-371d
36d	Method of Construction for CAPC Slack - Steel Support	20-Aug-15	02-Oct-15	36d	100%	Completed	02-Jan-17	-371d
22d	Method of Construction for CAPC Slack - Steel Support	20-Aug-15	18-Sep-15	22d	0%	Not Started	19-Dec-16	-310d
14d	Method of Construction for CAPC Slack - Steel Support	19-Sep-15	02-Oct-15	14d	0%	Not Started	02-Jan-17	-458d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	30-Dec-16	35d	50%	In Progress	30-Dec-16	5d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	29-Dec-16	34d	34%	In Progress	29-Dec-16	-34d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	29-Dec-16	34d	0%	Not Started	15-Dec-16	-30d
0d	Method of Construction for CAPC Slack - Steel Support	16-Dec-16	29-Dec-16	14d	0%	Not Started	29-Dec-16	-42d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	30-Dec-16	35d	50%	In Progress	30-Dec-16	5d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	30-Dec-16	35d	50%	In Progress	30-Dec-16	5d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	16-Dec-16	21d	0%	Not Started	16-Dec-16	5d
0d	Method of Construction for CAPC Slack - Steel Support	17-Dec-16	30-Dec-16	14d	0%	Not Started	30-Dec-16	7d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	30-Dec-16	35d	0%	Not Started	30-Dec-16	-25d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	16-Dec-16	21d	0%	Not Started	16-Dec-16	-23d
0d	Method of Construction for CAPC Slack - Steel Support	17-Dec-16	30-Dec-16	14d	0%	Not Started	30-Dec-16	-31d
199d	Method of Construction for CAPC Slack - Steel Support	28-May-15	04-Dec-15	63d	100%	Completed	06-Feb-17	-345d
35d	Method of Construction for CAPC Slack - Steel Support	09-Jul-15	30-Dec-16	35d	0%	Not Started	30-Dec-16	-441d
35d	Method of Construction for CAPC Slack - Steel Support	09-Jul-15	30-Dec-16	35d	0%	Not Started	30-Dec-16	-441d
21d	Method of Construction for CAPC Slack - Steel Support	25-Jun-15	16-Dec-16	21d	0%	Not Started	16-Dec-16	-389d
14d	Method of Construction for CAPC Slack - Steel Support	26-Jun-15	09-Jul-15	14d	0%	Not Started	30-Dec-16	-540d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	05-Jan-17	39d	49%	In Progress	05-Jan-17	-49d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	05-Jan-17	39d	49%	In Progress	05-Jan-17	-49d
0d	Method of Construction for CAPC Slack - Steel Support	18-Nov-16	22-Dec-16	25d	0%	Not Started	22-Dec-16	-44d
0d	Method of Construction for CAPC Slack - Steel Support	23-Dec-16	05-Jan-17	14d	0%	Not Started	05-Jan-17	-60d
109d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	04-Dec-15	63d	100%	Completed	06-Feb-17	-345d
109d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	04-Dec-15	63d	100%	Completed	06-Feb-17	-345d
43d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	24-Sep-15	26d	39.53%	In Progress	23-Dec-16	-310d
25d	Method of Construction for CAPC Slack - Steel Support	16-Sep-15	23-Oct-15	25d	0%	Not Started	23-Jan-17	-310d
14d	Method of Construction for CAPC Slack - Steel Support	24-Oct-15	06-Nov-15	14d	0%	Not Started	06-Feb-17	-458d
7d	Method of Construction for CAPC Slack - Steel Support	14-Nov-15	20-Nov-15	7d	0%	Not Started	09-Dec-16	-385d
0d	Method of Construction for CAPC Slack - Steel Support	04-Dec-15	23-Dec-16	0d	0%	Not Started	23-Dec-16	-385d
51d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	24-Sep-15	39d	100%	Completed	05-Jan-17	-379d
42d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	14-Sep-15	39d	48%	In Progress	05-Jan-17	-388d
42d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	14-Sep-15	39d	48%	In Progress	05-Jan-17	-388d
25d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	31-Aug-15	25d	0%	Not Started	22-Dec-16	-327d
14d	Method of Construction for CAPC Slack - Steel Support	01-Sep-15	14-Sep-15	14d	0%	Not Started	05-Jan-17	-479d
42d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	14-Sep-15	0d	0%	Not Started	02-Nov-16 A	-336d
42d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	14-Sep-15	0d	0%	Not Started	02-Nov-16 A	-336d
25d	Method of Construction for CAPC Slack - Steel Support	28-Jul-15	31-Aug-15	0d	100%	Completed	17-Oct-16 A	-279d
14d	Method of Construction for CAPC Slack - Steel Support	01-Sep-15	14-Sep-15	0d	100%	Completed	02-Nov-16 A	-415d
42d	Method of Construction for CAPC Slack - Steel Support	07-Aug-15	24-Sep-15	30d	0%	Not Started	22-Dec-16	-370d
42d	Method of Construction for CAPC Slack - Steel Support	07-Aug-15	24-Sep-15	30d	0%	Not Started	22-Dec-16	-370d
25d	Method of Construction for CAPC Slack - Steel Support	07-Aug-15	10-Sep-15	15d	40%	In Progress	08-Dec-16	-309d
14d	Method of Construction for CAPC Slack - Steel Support	11-Sep-15	24-Sep-15	35d	10.26%	In Progress	22-Dec-16	-455d
42d	Method of Construction for CAPC Slack - Steel Support	15-Sep-15	05-Nov-15	39d	43%	In Progress	05-Jan-17	-346d
42d	Method of Construction for CAPC Slack - Steel Support	15-Sep-15	05-Nov-15	39d	43%	In Progress	05-Jan-17	-346d
25d	Method of Construction for CAPC Slack - Steel Support	15-Sep-15	22-Oct-15	25d	0%	Not Started	22-Dec-16	-292d
14d	Method of Construction for CAPC Slack - Steel Support	23-Oct-15	05-Nov-15	14d	0%	Not Started	05-Jan-17	-427d
71d	Method of Construction for CAPC Slack - Steel Support	06-Aug-15	30-Oct-15	72d	100%	Completed	16-Feb-17	-384d
71d	Method of Construction for CAPC Slack - Steel Support	06-Aug-15	30-Oct-15	72d	100%	Completed	16-Feb-17	-384d

Task ID	Task Name	Start Date	End Date	Duration (Days)	Progress (%)	Current Date	Next Milestone	Notes
1280	Switchgear, LCP, Cable, Earthing, etc.	14-May-15	16-Oct-15	52d	02-May-15 A	20-Jan-17	279d	-375d
0d		0d	12-Oct-16 A	59d	15-Jan-17	50d		
0d		0d	12-Oct-16 A	59d	15-Jan-17	50d		
0d		0d	12-Oct-16 A	15d	02-Dec-16	0%	-20d	IC checks & certifies HV Electrical System
0d		0d		0d	15-Jan-17	0%	-50d	Employer consents to Electrical System
128d	Electrical System	14-May-15	16-Oct-15	52d	02-May-15 A	20-Jan-17	279d	-375d
128d	Electrical System Equipment	14-May-15	16-Oct-15	52d	02-May-15 A	20-Jan-17	279d	-375d
0d		0d	14-May-15	0d	19-Oct-16 A	100%	-523d	Employer consents to Electrical System Equipment
37d	Detailed Design of Electrical System to IC, ER & Employer	02-Jul-15	21-Aug-15	19d	02-May-15 A	14-Dec-16	7d	-327d
14d	IC checks on Detailed Design of Electrical System	22-Aug-15	04-Sep-15	36d	13-May-15 A	23-Dec-16	373d	-476d
7d	Detailed Design of Electrical System to IC, Employer & ER	05-Sep-15	11-Sep-15	43d	10-Jul-15 A	30-Dec-16	366d	-476d
7d	Electrical System	12-Sep-15	18-Sep-15	50d	15-Jul-15 A	06-Jan-17	-30d	-476d
0d	Electrical System		16-Oct-15	0d	20-Jan-17	0%	-30d	-462d
0d		0d	05-Jul-16 A	28d	05-Jul-16 A	15-Dec-16	-5d	
0d		0d	05-Jul-16 A	28d	05-Jul-16 A	15-Dec-16	-5d	
0d		0d	05-Jul-16 A	0d	05-Jul-16 A	17-Nov-16 A	100%	
0d	ELV System		20-Oct-15	14d	18-Nov-16	01-Dec-16	-5d	
0d	ELV System		20-Oct-15	0d	15-Dec-16	0%	-5d	
0d	SCADA/PLC System (Batch 1)	20-Oct-15	20-Oct-15	73d	01-Dec-15 A	17-Feb-17	-27d	-393d
0d	Detailed Design of SCADA/PLC System to IC, Employer & ER	20-Oct-15	20-Oct-15	73d	01-Dec-15 A	17-Feb-17	-27d	-393d
0d	SCADA/PLC System (Batch 2)	20-Oct-15	20-Oct-15	73d	01-Dec-15 A	17-Feb-17	-27d	-393d
0d	Detailed Design of SCADA/PLC System to IC, Employer & ER	20-Oct-15	20-Oct-15	0d	14-Jan-16 A	14-Nov-16 A	100%	
0d	SCADA/PLC System (Batch 3)	20-Oct-15	20-Oct-15	29d	15-Nov-16 A	16-Dec-16	75%	-22d
0d	Detailed Design of SCADA/PLC System (Batch 2)	20-Oct-15	20-Oct-15	29d	17-Dec-16	14-Jan-17	0%	-22d
0d	SCADA/PLC System (Batch 2) (3rd)	20-Oct-15	20-Oct-15	7d	15-Jan-17	21-Jan-17	0%	-22d
0d	SCADA/PLC System (Batch 2)	20-Oct-15	20-Oct-15	0d		04-Feb-17	0%	-22d
0d	Detailed Design of SCADA/PLC to IC, ER & Employer (Batch 1)	20-Oct-15	20-Oct-15	21d	01-Dec-15 A	16-Dec-16	60%	-25d
0d	Detailed Design of SCADA/PLC System (Batch 3)	20-Oct-15	20-Oct-15	14d	17-Dec-16	30-Dec-16	0%	-35d
0d	Detailed Design of SCADA/PLC System to IC, Employer & ER	20-Oct-15	20-Oct-15	7d	31-Dec-16	06-Jan-17	0%	-35d
0d	Detailed Design of SCADA/PLC System (Batch 3)	20-Oct-15	20-Oct-15	14d	07-Jan-17	20-Jan-17	0%	-35d
0d	Detailed Design of SCADA/PLC System to IC, Employer & ER	20-Oct-15	20-Oct-15	7d	21-Jan-17	27-Jan-17	0%	-35d
0d	SCADA/PLC System (Batch 3) (3rd)	20-Oct-15	20-Oct-15	7d	28-Jan-17	03-Feb-17	0%	-35d
0d	SCADA/PLC System (Batch 3)	20-Oct-15	20-Oct-15	0d		17-Feb-17	0%	-35d
45d	SCADA/PLC System (Batch 3)	09-Sep-15	04-Nov-15	54d	15-Jul-15 A	23-Jan-17	-19d	-362d
33d	SCADA/PLC System (Batch 3)	09-Sep-15	21-Oct-15	35d	09-Dec-16	23-Jan-17	-19d	-374d
33d	SCADA/PLC System (Batch 3)	09-Sep-15	21-Oct-15	35d	09-Dec-16	23-Jan-17	-19d	-374d
33d	SCADA/PLC System (Batch 3)	09-Sep-15	21-Oct-15	35d	09-Dec-16	23-Jan-17	-19d	-374d
0d	Detailed Design of SCADA/PLC System to IC, ER & Employer	09-Sep-15	09-Sep-15	0d		09-Dec-16	0%	-371d
14d	Detailed Design of SCADA/PLC System to IC, ER & Employer	10-Sep-15	23-Sep-15	14d	13-Dec-16	26-Dec-16	0%	-460d
7d	Detailed Design of SCADA/PLC System to IC, ER & Employer	24-Sep-15	30-Sep-15	7d	27-Dec-16	02-Jan-17	0%	-460d
7d	Detailed Design of SCADA/PLC System to IC, ER & Employer	01-Oct-15	07-Oct-15	7d	03-Jan-17	09-Jan-17	0%	-460d
0d	Detailed Design of SCADA/PLC System to IC, ER & Employer	21-Oct-15	21-Oct-15	0d		23-Jan-17	0%	-460d
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	44d	28-Jul-15 A	31-Dec-16	-51d	
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	44d	28-Jul-15 A	31-Dec-16	-51d	
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	44d	28-Jul-15 A	31-Dec-16	-51d	
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	30d	28-Jul-15 A	17-Dec-16	0%	-51d
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	0d		31-Dec-16	0%	-51d
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	39d	15-Jul-15 A	26-Dec-16	-46d	
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	39d	15-Jul-15 A	26-Dec-16	-46d	
0d	Administration Bldg #1	21-Oct-15	21-Oct-15	25d	15-Jul-15 A	12-Dec-16	80%	-46d



Comprehensive Project Schedule & Resource Allocation									
Task ID	Task Name	Start Date	End Date	Duration (Days)	Progress (%)	Resources (FTE)	Dependencies	Notes	Category
191d	20-Apr-15	21-Jan-16	18-Jan-17	-245d		235d			AD Suppliers
200	20-Apr-15	18-May-15	18-Nov-16	-376d	99%	275d		Issue orders & receive shop drawings from AD suppliers	AD Suppliers
0d			14-Dec-16	14d	88%			Safety Relief Valve	AD Suppliers
0d			30-Nov-16	28d	90%			Hot Water Pumps	AD Suppliers
0d			18-Jan-17	-14d	0%				AD Suppliers
64d	22-Oct-15	21-Jan-16	28-Dec-16	-231d	0%	16d			Digestate Tanks
0d			16-Dec-16	20d	80%			Monorail (Suspension Buffer Pump Room)	Digestate Tanks
219d	08-Apr-15	23-Feb-16	30-Dec-16	-213d		247d			Digestate Tanks
218d	08-Apr-15	23-Feb-16	30-Dec-16	-213d		247d			Digestate Tanks
219d	08-Apr-15	23-Feb-16	30-Dec-16	-213d		247d			Digestate Tanks
17d	08-Apr-15	30-Apr-15	29-Nov-16	-394d	96%	268d		Issue orders & receive shop drawings from Biogas suppliers	Biogas Suppliers
0d			02-Dec-16	18d	92%			Condensate Pumps	Biogas Suppliers
0d			09-Dec-16	11d	88%			Condensate Pots	Biogas Suppliers
64d	19-Nov-15	23-Feb-16	07-Dec-16	-198d	92%	5d		Biogas Storage Tank Holder	Biogas Suppliers
0d			30-Dec-16	-9d	88%				Biogas Suppliers
13d	15-Mar-15	30-Mar-15	11-Jan-17	-529d		287d			Biogas Storage Tank Holder Steel Casings
13d	15-Mar-15	30-Mar-15	11-Jan-17	-529d		287d			Biogas Storage Tank Holder Steel Casings
13d	15-Mar-15	30-Mar-15	11-Jan-17	-529d		287d			Biogas Storage Tank Holder Steel Casings
16d	15-Mar-15	30-Mar-15	12-Dec-16	-623d	97.2%	394d		Issue orders & receive shop drawings from CHP suppliers	CHP Suppliers
0d			11-Jan-17	-3d	0%				CHP Suppliers
315d	12-Feb-15	25-May-16	30-Dec-16	-151d		247d			CHP Suppliers
315d	12-Feb-15	25-May-16	30-Dec-16	-151d		247d			CHP Suppliers
315d	12-Feb-15	25-May-16	30-Dec-16	-151d		247d			CHP Suppliers
18d	12-Feb-15	11-Mar-15	22-Nov-16	-422d	99%	273d		Issue orders & receive shop drawings from Digestate Dewatering suppliers	Dewatering Suppliers
0d			16-Dec-16	5d	52%			Centrate Tank	Dewatering Suppliers
0d			30-Dec-16	9d	0%			Platform at Dewatering Area	Dewatering Suppliers
0d			18-Nov-16	85d	100%			Bollfilter	Dewatering Suppliers
0d			30-Dec-16	16d	68%			Polymer Storage Tank	Dewatering Suppliers
0d			28-Oct-16A	42d	100%			Centrate Discharge Pumps	Dewatering Suppliers
0d			16-Dec-16	42d	0%			Break Tank	Dewatering Suppliers
143d	27-Oct-15	25-May-16	30-Dec-16	-151d	78%	104d		Polymer Dosing System	Dewatering Suppliers
0d			04-Nov-16A	100%	100%			Slave Fine Plastic	Dewatering Suppliers
0d			30-Dec-16	46d	66%			Anti-Foaming and Anti-Scalant Station	Dewatering Suppliers
0d			16-Dec-16	36d	75%			Monorail (Dewatering)	Dewatering Suppliers
315d	12-Feb-15	25-May-16	03-Feb-17	-173d		221d			Dewatering Suppliers
315d	12-Feb-15	25-May-16	03-Feb-17	-173d		221d			Dewatering Suppliers
315d	12-Feb-15	25-May-16	03-Feb-17	-173d		221d			Dewatering Suppliers
18d	12-Feb-15	11-Mar-15	02-Nov-16A	-408d	100%			Issue orders & receive shop drawings from Composting suppliers	Composting Suppliers
143d	09-Sep-15	11-Apr-16	03-Feb-17	-204d	72%	79d			Composting Suppliers
143d	27-Oct-15	25-May-16	28-Oct-16A	-106d	100%			Leachate Treatment Pump & Sludge Pump	Composting Suppliers
103d	09-Sep-15	05-Feb-16	05-Dec-16	-205d	82%	260d		Compost Bagging Machine	Composting Suppliers
103d	09-Sep-15	05-Feb-16	07-Dec-16	-207d	90%	66d		Heat Exchangers	Composting Suppliers
103d	09-Sep-15	05-Feb-16	30-Nov-16	-202d	96%	71d		Hot Water Circulation Pumps	Composting Suppliers
103d	09-Sep-15	05-Feb-16	13-Jan-17	-231d	15%	43d		Tunnel Doors	Composting Suppliers
235d	16-Mar-15	25-Feb-16	28-Feb-17	-250d		208d			Composting Suppliers
235d	16-Mar-15	25-Feb-16	28-Feb-17	-250d		208d			Composting Suppliers
17d	16-Mar-15	10-Apr-15	22-Dec-16	-425d	98%	281d		Issue orders & receive shop drawings from WWTS suppliers	WWTS Suppliers
103d	24-Sep-15	25-Feb-16	19-Jan-17	-224d	90%	7d			WWTS Suppliers
0d			27-Jan-17	-8d	0%				WWTS Suppliers
0d			09-Nov-16A	100%	100%			Primary Sedimentation Tank (Conical Tank)	WWTS Suppliers
0d			28-Feb-17	-28d	63%				WWTS Suppliers

Project Overview		Key Milestones & Deadlines				Resource Allocation & Utilization				Financial Performance & Budget				
Phase	Activity	Start Date	End Date	Duration (Days)	Resources	Allocated	Utilized	Remaining	Cost (k\$)	Budget (k\$)	Variance (k\$)	Actual Spend (k\$)	Forecast (k\$)	
Phase 1: Initial Setup	Mechanical Shop Drawings	236d	12-Feb-15	26-Jan-16	61d	30-May-15 A	17-Feb-17	215d	-262d	150	150	0	150	150
		236d	12-Feb-15	26-Jan-16	61d	30-May-15 A	17-Feb-17	215d	-262d	150	150	0	150	150
		236d	12-Feb-15	26-Jan-16	61d	30-May-15 A	17-Feb-17	215d	-262d	150	150	0	150	150
		18d	12-Feb-15	11-Mar-15	6d	30-May-15 A	25-Nov-16	270d	-425d	200	200	0	200	200
		103d	28-Aug-15	26-Jan-16	39d	14-Jan-16 A	16-Jan-17	-21d	-240d	100	100	0	100	100
	Electrical & Instrumentation	0d			61d	02-Sep-16 A	17-Feb-17	-38d		50	50	0	50	50
		0d			43d	24-Jun-16 A	20-Jan-17	-33d		50	50	0	50	50
		0d			44d	12-Dec-16*	16-Feb-17	-24d		50	50	0	50	50
		0d			29d	14-Jan-16 A	30-Dec-16	0d		50	50	0	50	50
		0d			46d	05-Dec-16*	13-Feb-17	-14d		50	50	0	50	50
Phase 2: Core Construction	Mechanical Shop Drawings	352d	09-Mar-15	18-May-16	129d	16-Sep-15 A	28-Apr-17	201d	-281d	200	200	0	200	200
		352d	09-Mar-15	18-May-16	129d	16-Sep-15 A	28-Apr-17	201d	-281d	200	200	0	200	200
		352d	09-Mar-15	18-May-16	129d	16-Sep-15 A	28-Apr-17	201d	-281d	200	200	0	200	200
		20d	09-Mar-15	08-Apr-15	15d	16-Sep-15 A	08-Dec-16	261d	-417d	200	200	0	200	200
		0d			21d	30-Nov-16*	30-Dec-16	4d		200	200	0	200	200
	Electrical & Instrumentation	0d			29d	15-Dec-16*	27-Jan-17	-15d		200	200	0	200	200
		0d			25d	24-Nov-16*	30-Dec-16	4d		200	200	0	200	200
		0d			26d	18-Nov-16*	23-Dec-16	7d		200	200	0	200	200
		0d			20d	28-Nov-16*	23-Dec-16	7d		200	200	0	200	200
		0d			25d	24-Nov-16*	30-Dec-16	4d		200	200	0	200	200
Phase 3: Final Commissioning	Mechanical Shop Drawings	105d	21-Jul-15	17-Dec-15	20d	19-Jan-16 A	15-Dec-16	-23d	-247d	100	100	0	100	100
		0d			0d	16-Sep-15 A	27-Oct-16 A	30d		100	100	0	100	100
		0d			10d	30-Jul-16 A	29-Nov-16	-2d		100	100	0	100	100
		0d			35d	27-Oct-16 A	10-Jan-17	-3d		100	100	0	100	100
		0d			29d	11-Jul-16 A	30-Dec-16	-3d		100	100	0	100	100
	Electrical & Instrumentation	20d	17-Jun-15	15-Jul-15	34d	23-Nov-15 A	09-Jan-17	242d	-369d	200	200	0	200	200
		90d	05-Nov-15	16-Mar-16	50d	09-Jan-17*	21-Mar-17	-39d	-251d	200	200	0	200	200
		40d	22-Sep-15	19-Nov-15	20d	09-Dec-16*	10-Jan-17	13d	-282d	200	200	0	200	200
		120d	20-Nov-15	18-May-16	51d	14-Feb-17	28-Apr-17	13d	-235d	200	200	0	200	200
		0d			33d	18-Nov-16*	06-Jan-17	2d		200	200	0	200	200
Phase 4: Handover & Closeout	Mechanical Shop Drawings	0d			51d	10-Feb-17	26-Apr-17	2d		200	200	0	200	200
		0d			79d	08-Jun-16 A	24-Feb-17	127d		200	200	0	200	200
		0d			79d	08-Jun-16 A	24-Feb-17	127d		200	200	0	200	200
		0d			16d	27-Sep-16 A	09-Dec-16	17d		200	200	0	200	200
		0d			21d	25-Nov-16*	23-Dec-16	146d		200	200	0	200	200
	Electrical & Instrumentation	0d			25d	09-Dec-16*	17-Jan-17	132d		200	200	0	200	200
		0d			24d	27-Jun-16 A	21-Dec-16	148d		200	200	0	200	200
		0d			14d	08-Jun-16 A	07-Dec-16	158d		200	200	0	200	200
		0d			30d	09-Dec-16*	16-Jan-17	158d		200	200	0	200	200
		0d			51d	09-Dec-16*	24-Feb-17	106d		200	200	0	200	200
Phase 5: Final Review & Closeout	Mechanical Shop Drawings	0d			51d	09-Dec-16*	24-Feb-17	106d		200	200	0	200	200
		0d			28d	09-Dec-16*	20-Jan-17	129d		200	200	0	200	200
		0d			38d	27-Jun-16 A	13-Jan-17	134d		200	200	0	200	200
		275d	15-May-15	15-Apr-16	90d	27-May-15 A	09-Mar-17	241d	-268d	200	200	0	200	200
		208d	15-May-15	15-Mar-16	42d	27-May-15 A	19-Jan-17	234d	-211d	200	200	0	200	200
	Electrical & Instrumentation	208d	15-May-15	15-Mar-16	42d	27-May-15 A	19-Jan-17	234d	-211d	200	200	0	200	200
		12d	15-May-15	02-Jun-15	16d	27-May-15 A	09-Dec-16	280d	-381d	200	200	0	200	200
		0d			29d	03-Aug-16 A	30-Dec-16	-21d		200	200	0	200	200
		0d			0d					200	200	0	200	200
		0d			0d					200	200	0	200	200

Project Overview		Key Milestones & Deliverables			Resource Allocation & Budget			Risk Management & Compliance		
ID	Task Name	Start Date	End Date	Duration (Days)	Assigned Resources	Budget (k\$)	Actual Spend (k\$)	Progress (%)	Risk Level	Compliance Status
Phase 1: Site Preparation & Infrastructure	Accessories System (Biogas Cleaning & Storage)	0d	30-Dec-16	62%	29d 15-Jul-16 A	-16d				MCC and Electrical Accessories System (Phase 1)
	Accessories System (Heat Recovery & Power Generation)	0d	30-Dec-16	68%	29d 03-Aug-16 A	-16d				MCC and Electrical Accessories System (Phase 2)
	Accessories System (Cable Containment)	61d 19-Oct-15	14-Jan-16	78%	20d 11-Jul-16 A	-33d	-238d			Cables (HV & LV) and Accessories (Batch 1)
	Accessories System (Composting and Dewatering)	0d	25-Nov-16	0%	5d 21-Nov-16	50d				FAT of MCC (1st batch - Composting and Dewatering)
	Accessories System (Remaining)	0d	23-Dec-16	0%	5d 19-Dec-16	-18d				FAT of MCC (2nd batch - Remaining)
	Accessories System (Earthing and Lightning)	40d 19-Oct-15	14-Dec-15	98.23%	15d 27-May-15 A	29d	-246d			Earthing and Lightning
	Accessories System (Emergency Diesel Tank)	101d 19-Oct-15	15-Mar-16	53%	42d 19-Aug-16 A	-4d	-211d			Emergency Diesel Tank (Batch 1)
	Accessories System (Remaining)	0d	16-Jan-17	0%	39d 18-Nov-16*	-17d				
	Accessories System (Transformer supplier)	0d	09-Mar-17	241d	90d 17-Nov-15 A	241d				Issue orders & receive shop drawings from Transformer supplier
	Accessories System (Transformer supplier)	0d	23-Nov-16	98%	5d 17-Nov-15 A	326d				11kV / 380V Transformers, Earthing Transformer
Phase 2: Main System Installation	Accessories System (CLP)	0d	09-Mar-17	0%	72d 09-Dec-16*	-21d				
	Accessories System (HV Switch Board)	0d	23-Nov-16	326d	5d 17-Nov-15 A	326d				
	Accessories System (HV Switch Board)	0d	23-Nov-16	326d	5d 17-Nov-15 A	326d				
	Accessories System (HV Switch Board)	0d	23-Nov-16	98%	5d 17-Nov-15 A	326d				
	Accessories System (HV Switch Board)	0d	23-Nov-16	99%	5d 28-May-16 A	-51d				
	Accessories System (HV Switch Board)	0d	20-Oct-16 A	100%	0d 19-Oct-16 A					
	Accessories System (HV Switch Board)	273d 15-May-15	15-Apr-16	302d	28d 23-Nov-15 A	-206d				
	Accessories System (HV Switch Board)	273d 15-May-15	15-Apr-16	302d	28d 23-Nov-15 A	-206d				
	Accessories System (HV Switch Board)	12d 15-May-15	02-Jun-15	296d	20d 23-Nov-15 A	-355d				
	Accessories System (HV Switch Board)	121d 19-Oct-15	15-Apr-16	86%	23d 14-Jul-16 A	-43d	-172d			
Phase 3: Final Commissioning & Handover	Accessories System (HV Switch Board)	5d 01-Apr-16	08-Apr-16	0%	4d 28-Nov-16*	-36d	-196d			
	Accessories System (HV Switch Board)	222d 27-May-15	22-Feb-16	253d	78d 01-Mar-15 A	-238d				
	Accessories System (HV Switch Board)	222d 27-May-15	22-Feb-16	253d	78d 01-Mar-15 A	-238d				
	Accessories System (HV Switch Board)	222d 27-May-15	22-Feb-16	253d	78d 01-Mar-15 A	-238d				
	Accessories System (HV Switch Board)	20d 27-May-15	23-Jun-15	268d	8d 01-Mar-15 A	-358d				
	Accessories System (HV Switch Board)	83d 22-Oct-15	22-Feb-16	88%	20d 08-Jul-16 A	-23d	-206d			
	Accessories System (HV Switch Board)	2d 29-Jan-16	01-Feb-16	100%	0d 21-Sep-16 A		-230d			
	Accessories System (HV Switch Board)	0d	16-Jan-17	55%	39d 19-Aug-16 A	5d				
	Accessories System (HV Switch Board)	0d	30-Dec-16	0%	35d 16-Nov-16 A	296d				
	Accessories System (HV Switch Board)	0d	23-Feb-17	0%	42d 21-Dec-16*	-11d				
Phase 4: Final Review & Reporting	Accessories System (HV Switch Board)	0d	14-Feb-17	0%	24d 14-Jan-17	261d				
	Accessories System (HV Switch Board)	280d 12-Feb-15	03-Mar-16	218d	58d 17-Aug-15 A	-256d				
	Accessories System (HV Switch Board)	282d 12-Feb-15	22-Feb-16	234d	42d 17-Aug-15 A	-227d				
	Accessories System (HV Switch Board)	282d 12-Feb-15	22-Feb-16	234d	42d 17-Aug-15 A	-227d				
	Accessories System (HV Switch Board)	20d 12-Feb-15	13-Mar-15	267d	9d 17-Aug-15 A	-426d				
	Accessories System (HV Switch Board)	83d 22-Oct-15	22-Feb-16	95%	9d 21-Jun-16 A	-31d	-194d			
	Accessories System (HV Switch Board)	0d	19-Jan-17	0%	30d 06-Dec-16*	-24d				
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	13d	44d 08-Jun-16 A	-221d				
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	13d	44d 08-Jun-16 A	-221d				
	Accessories System (HV Switch Board)	0d	20-Jan-17	0%	14d 03-Jan-17	-34d				
Phase 5: Final Handover & Closeout	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Jan-17	82%	44d 08-Jun-16 A	13d	-221d			
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	29d	39d 15-Dec-16	-29d	-235d			
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	29d	39d 15-Dec-16	-29d	-235d			
	Accessories System (HV Switch Board)	0d	01-Feb-17	0%	30d 15-Dec-16*	-20d				
	Accessories System (HV Switch Board)	0d	01-Feb-17	0%	30d 15-Dec-16*	-40d				
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	1d	18d 05-Jan-17	-226d				
	Accessories System (HV Switch Board)	81d 05-Nov-15	03-Mar-16	1d	18d 05-Jan-17	-226d				
	Accessories System (HV Switch Board)	137d 14-Aug-15	03-Mar-16	-10d	50d 10-Jun-16 A	-227d				
	Accessories System (HV Switch Board)	137d 14-Aug-15	03-Mar-16	-10d	50d 10-Jun-16 A	-227d				
	Accessories System (HV Switch Board)	83d 14-Aug-15	11-Dec-15	84%	32d 10-Jun-16 A	-9d	-263d			

Activity	Start	End	Duration	Progress	Resources	Dependencies	Notes
Process Water, Process Clean Water	0d	35d	16-Nov-16 A	10-Jan-17	3%	-7d	Fan Coil Units
Process Water	0d	63d	30-Jun-16 A	21-Feb-17	-39d		
Process Water	0d	63d	30-Jun-16 A	21-Feb-17	-39d		
Process Water	0d	63d	30-Jun-16 A	21-Feb-17	-39d		
Process Water	0d	29d	30-Jun-16 A	30-Dec-16	72%	-8d	Compressed Air System
Process Water	0d	25d	08-Dec-16*	16-Jan-17	0%	-42d	Process Water
Process Water	0d	35d	30-Dec-16*	21-Feb-17	0%	-39d	
Process Water	64d	06-Jul-15	05-Oct-15	23-Feb-17	-35d	-344d	
Process Water	64d	06-Jul-15	05-Oct-15	23-Feb-17	-35d	-344d	
Process Water	64d	06-Jul-15	05-Oct-15	23-Feb-17	-35d	-344d	
Process Water	64d	06-Jul-15	05-Oct-15	04-Nov-16 A	100%	-270d	Electric Water Heater
Process Water	64d	06-Jul-15	05-Oct-15	09-Dec-16	95%	-15d	Hot Water Circulation Pumps
Process Water	0d	55d	02-Dec-16*	23-Feb-17	0%	-35d	
Process Water	0d	16d	02-Sep-16 A	09-Dec-16	82%	1d	Break Tank
Process Water	0d	23d	17-Aug-16 A	20-Dec-16	68%	-2d	Magnetic Filter
Process Water	0d	23d	17-Aug-16 A	20-Dec-16	68%	-2d	Softener
Process Water	374d	08-Jul-15	07-Oct-16	04-May-17	199d	-166d	
Process Water	0d	11d	07-Jan-17	19-Jan-17	4d	4d	
Process Water	0d	11d	07-Jan-17	19-Jan-17	4d	4d	
Process Water	0d	11d	07-Jan-17	19-Jan-17	4d	4d	
Process Water	225d	05-Oct-15	09-Jul-16	04-May-17	199d	-241d	
Process Water	0d	15d	20-Jan-17	09-Feb-17	4d	4d	
Process Water	0d	15d	20-Jan-17	09-Feb-17	4d	4d	
Process Water	0d	101d	17-Oct-16 A	22-Mar-17	91d	4d	
Process Water	0d	18d	17-Oct-16 A	08-Dec-16	174d		
Process Water	0d	18d	18-Nov-16	08-Dec-16	0%	174d	
Process Water	0d	0d	17-Oct-16 A	03-Nov-16 A	100%		Bay A3 - Parapet Wall to +14.900
Process Water	0d	101d	04-Nov-16 A	22-Mar-17	-5d		
Process Water	0d	6d	04-Nov-16 A	24-Nov-16	-31d		
Process Water	0d	12d	25-Nov-16	08-Dec-16	0%	-31d	
Process Water	0d	40d	25-Nov-16	13-Jan-17	0%	-31d	
Process Water	0d	0d		13-Jan-17	0%	24d	
Process Water	0d	85d	07-Dec-16	22-Mar-17	0%	-5d	
Process Water	0d	4d	14-Jan-17	19-Jan-17	33d		
Process Water	0d	0d	14-Jan-17		37d		
Process Water	0d	0d	19-Jan-17		0%	-31d	
Process Water	15d	05-Oct-15	22-Oct-15	15-Mar-17	1d	-414d	
Process Water	15d	05-Oct-15	22-Oct-15	04-Mar-17	4d	-405d	
Process Water	15d	05-Oct-15	22-Oct-15	05-Dec-16	-11d	-334d	
Process Water	0d	20d	10-Feb-17	04-Mar-17	4d		
Process Water	0d	0d	16-Aug-16 A	20-Oct-16 A			Bay K1 - Staircase
Process Water	0d	0d	16-Aug-16 A	20-Oct-16 A	100%		
Process Water	0d	16d	08-Sep-16 A	06-Dec-16	-45d		
Process Water	0d	16d	08-Sep-16 A	06-Dec-16	-45d		Bay C3 - MIF to 1/F Roof @+17.200
Process Water	0d	0d	21-Oct-16 A	31-Oct-16 A	100%		Bay K2 - Staircase
Process Water	0d	16d	01-Nov-16 A	06-Dec-16	11d		
Process Water	0d	16d	01-Nov-16 A	06-Dec-16	11d		Bay K3 - Staircase to Roof
Process Water	0d	77d	18-Nov-16	22-Feb-17	-8d		
Process Water	0d	53d	18-Nov-16*	21-Jan-17	-8d		Fabrication
Process Water	0d	24d	23-Jan-17	22-Feb-17	-8d		
Process Water	85d	30-Nov-16	15-Mar-17	1d			
Process Water	0d	12d	07-Dec-16	20-Dec-16	0%	-40d	
Process Water	0d	12d	07-Dec-16	20-Dec-16	0%	-40d	Clearance of Internal Area of G/F (Part A)
Process Water	0d	5d	07-Dec-16	16-Feb-17	0%	4d	Erect bamboo working platform at Internal Area of G/F (Part A)
Process Water	0d	0d			0%	4d	Erect bamboo working platform at Internal Area of G/F (Part A)

Activity	Start	End	Duration	Progress	Dependencies	Notes
Foundation and Working Platform (Part A)	0d	24-Jan-17	0%	15d		
Initial ABWF Works (Part A)	0d	15-Mar-17	0%	1d		◆ Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 Workshop)
M Works (Zone #1.1.3 Part A - Building 1 Workshop)	0d	08-Feb-17	-7d			◆ Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 Workshop)
	0d		38d			◆ Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 Workshop)
	0d		9d			◆ Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 Workshop)
M Works (Zone #1.1.4 Part A - Building 1 WWTP MCC)	0d	19-Jan-17	0%	-40d		◆ Handover G/F to E&M Works (Zone #1.1.4 Part A - Building 1 WWTP MCC)
M Works (Zone #1.1.4 Part A - Building 1 Admin. Bldg. Firemen)	0d	10-Dec-16	0%	-45d		◆ Handover G/F to E&M Works (Zone #1.1.4 Part A - Building 1 Admin. Bldg. Firemen Lift)
M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Grid)	0d	23-Dec-16	0%	-33d		◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Grid)
M Works (Zone #1.2.3 Part A - Building 1 Admin. Bldg. Grid)	0d	08-Feb-17	0%	-31d		◆ Handover G/F to E&M Works (Zone #1.2.3 Part A - Building 1 Admin. Bldg. Grid)
Temporary Opening at +17.20mPD.	0d	22-Nov-16	64d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
	0d	22-Nov-16	64d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
	12d	11-Oct-16 A	-23d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
Parapet @+22.150	12d	18-Nov-16*	-23d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
Bay 50	0d	18-Nov-16*	-1d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
Roof and CAPCS MCC Room Roof @+22.150	0d	02-Dec-16	-2d			◆ Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Admin. Bldg. Firemen Lift)
Area of G/F (Part C)	155d	29-Dec-15	09-Jul-16	99d	-241d	
	6d	29-Dec-15	05-Jan-16	3d	-43d	
	12d	06-Jan-16	19-Jan-16	12d	-13d	
Working platform at Internal Area of G/F (Part C)	24d	20-Jan-16	19-Feb-16	42d	-258d	
(Part C)	0d	11-Oct-16 A	-43d			◆ Handover G/F to E&M Works (Zone #1.1.7 Part C - Building 1 - Area E)
Area of Mezz Lev. & 1/F (Part C)	9d	01-Mar-16	10-Mar-16	15d	-18d	
Working platform at Internal Area of Mezz Lev. & 1/F (Part C)	12d	11-Mar-16	24-Mar-16	12d	-214d	
1/F and R/F (Part C)	40d	29-Mar-16	17-May-16	67d	06-Jan-17	
Initial ABWF Works (Part C)	85d	24-Mar-16	09-Jul-16	85d	16-Jan-17	
M Works (Zone #1.1.1 Part C - SBT Pump Room)	0d	04-Feb-16	04-Feb-16	56d	24-Oct-16 A	
	0d		-43d			◆ Handover G/F to E&M Works (Zone #1.1.1 Part C - SBT Pump Room)
	0d	15-Dec-16*	-26d			◆ Handover G/F to E&M Works (Zone #1.1.1 Part C - SBT Pump Room)
M Works (Zone #1.1.6 Part C - Building 1 - Pre-treat. Area Stages)	0d	08-Nov-16 A	100%	323d		◆ Handover G/F to E&M Works (Zone #1.1.6 Part C - Building 1 - Pre-treat. Area Stages)
M Works (Zone #1.1.7 Part C - Building 1 - Area E)	0d	28-Nov-16	0%	323d		◆ Handover G/F to E&M Works (Zone #1.1.7 Part C - Building 1 - Area E)
M Works (Zone #1.1.8 Part C - Building 1 - Area D without ABWF)	0d	24-Oct-16 A	100%	-265d		◆ Handover G/F to E&M Works (Zone #1.1.8 Part C - Building 1 - Area D without ABWF)
M Works (Zone #1.1.9 Part C - Building 1 - Area G)	0d	28-Dec-16	0%	-35d		◆ Handover G/F to E&M Works (Zone #1.1.9 Part C - Building 1 - Area G)
M Works (Zone #1.2.5 Part C - Building 1 - CAPCS Area - 350)	0d	08-Feb-17	0%	-48d		◆ Handover G/F to E&M Works (Zone #1.2.5 Part C - Building 1 - CAPCS Area - 350)
M Works (Zone #1.2.5 Part C - Building 1 - Pretreatment)	0d	14-Jan-17	0%	-36d		◆ Handover G/F to E&M Works (Zone #1.2.5 Part C - Building 1 - Pretreatment)
M Works (Zone #1.2.6 Part C - Building 1 - Chiller Plant)	0d	07-Feb-17	0%	-15d		◆ Handover G/F to E&M Works (Zone #1.2.6 Part C - Building 1 - Chiller Plant)
Roof & Covered Walkway Structural Steelwork	112d	24-Oct-15	09-Mar-16	62d	13-Dec-16	
	112d	24-Oct-15	09-Mar-16	62d	13-Dec-16	
	77d	24-Oct-15	25-Jan-16	35d	13-Dec-16	
Roof & Covered Walkway	6d	03-Mar-16	09-Mar-16	27d	26-Jan-17	
	0d	26-Jan-17	20-Feb-17	19d	26-Jan-17	
	262d	08-Jul-15	25-May-16	102d	10-Jun-16 A	
Roof & Covered Walkway	260d	08-Jul-15	23-May-16	102d	10-Jun-16 A	
	15d	08-Jul-15	24-Jul-15	15d	04-Jul-16 A	
	15d	08-Jul-15	24-Jul-15	15d	04-Jul-16 A	
Roof & Covered Walkway	15d	19-Aug-15	04-Sep-15	15d	10-Jun-16 A	
	15d	19-Aug-15	04-Sep-15	15d	10-Jun-16 A	
	111d	05-Jan-16	23-May-16	102d	13-Jul-16 A	
Roof & Covered Walkway	0d	20-Oct-16 A	90d	-250d		◆ Handover G/F to E&M Works (Zone #1.2.6 Part C - Building 1 - Chiller Plant)
	0d	12-Nov-16 A	138d			◆ Handover G/F to E&M Works (Zone #1.2.6 Part C - Building 1 - Chiller Plant)
	0d	19-Sep-16 A	50d			◆ Handover G/F to E&M Works (Zone #1.2.6 Part C - Building 1 - Chiller Plant)

Activity	Start Date	End Date	Duration (Days)	Progress (%)	Current Status	Notes	
Mechanical Works (Zone #2.1.8 - Building 2 Composting Tunnel)	0d	23-May-16	23	100%	Completed	Handover to E&M Works (Zone #2.1.8 - Building 2 Composting Tunnel)	
	0d	23-May-16	0	100%	Completed		
Mechanical Works (Zone #2.1.9 - Dewatering Area - 1/F)	0d	23-May-16	0	0%	Not Started	Handover to E&M Works (Zone #2.1.9 - Dewatering Area)	
	0d	23-May-16	0	0%	Not Started		
Mechanical Works (Zone #2.1.10 - Building 2 Other Remaining Area)	0d	23-May-16	0	0%	Not Started	Handover to E&M Works (Zone #2.1.10 - Building 2 Other Remaining Area)	
	0d	23-May-16	0	0%	Not Started		
Structural Steelwork	186d	31-Oct-15	84d	24-Sep-16 A	02-Mar-17	21d	230d
	186d	31-Oct-15	84d	24-Sep-16 A	02-Mar-17	21d	230d
Support for Link Bridge at Bldg 1 & 2	103d	31-Oct-15	30d	24-Sep-16 A	22-Dec-16	21d	239d
	12d	03-Mar-16	3d	10-Dec-16	13-Dec-16	0%	29d
Link Bridge	18d	17-Mar-16	18d	23-Dec-16	16-Jan-17	0%	21d
	36d	12-Apr-16	36d	17-Jan-17	02-Mar-17	0%	230d
Bridge	0d	25-May-16	0d	25-May-16	26-Jan-17	21d	203d
	0d	25-May-16	0d	25-May-16	26-Jan-17	0%	203d
Mechanical Works at Link Bridge (Zone #2.2 - Link Bridge)	326d	02-Sep-15	109d	19-Nov-15 A	31-Mar-17	222d	-143d
	66d	11-Dec-15	58d	29-Aug-16 A	27-Jan-17	273d	-269d
Mechanical Works (Zone #3)	66d	11-Dec-15	58d	29-Aug-16 A	27-Jan-17	273d	-269d
	11d	11-Dec-15	13d	18-Nov-16	02-Dec-16	0%	318d
Mechanical Works (Zone #3.1)	5d	05-Feb-16	0d	15-Oct-16 A	24-Oct-16 A	100%	-206d
	12d	29-Jan-16	13d	29-Aug-16 A	02-Dec-16	85%	-239d
Mechanical Works (Zone #3.2)	16d	15-Feb-16	56d	30-Aug-16 A	27-Jan-17	11%	-269d
	0d	03-Mar-16	53d	23-Nov-16	27-Jan-17	0%	-36d
Mechanical Works (Zone #3.3)	0d	03-Mar-16	0d	03-Mar-16	27-Jan-17	0%	-36d
	0d	03-Mar-16	0d	03-Mar-16	27-Jan-17	0%	-36d
Mechanical Works (Zone #3.4)	0d	03-Mar-16	0d	03-Mar-16	31-Dec-16	0%	-14d
	0d	03-Mar-16	0d	03-Mar-16	12-Dec-16*	0%	-20d
Mechanical Works (Zone #3.5)	0d	03-Mar-16	0d	03-Mar-16	23-Nov-16*	0%	-51d
	0d	03-Mar-16	0d	03-Mar-16	19-Dec-16*	0%	-51d
Mechanical Works (Zone #3.6)	0d	03-Mar-16	0d	03-Mar-16	27-Jan-17	0%	-42d
	18d	19-Feb-16	13d	05-Sep-16 A	02-Dec-16	-3d	-218d
Mechanical Works (Zone #3.7)	18d	19-Feb-16	13d	05-Sep-16 A	02-Dec-16	-20d	-218d
	18d	19-Feb-16	13d	05-Sep-16 A	02-Dec-16	80%	-218d
Mechanical Works (Zone #3.8)	0d	03-Mar-16	0d	03-Mar-16	02-Dec-16	-3d	-269d
	0d	03-Mar-16	0d	03-Mar-16	28-Nov-16*	0%	-29d
Mechanical Works (Zone #3.9)	0d	03-Mar-16	0d	03-Mar-16	02-Dec-16*	0%	-3d
	18d	26-Nov-15	30d	23-Jan-17	01-Mar-17	-8d	-355d
Mechanical Works (Zone #3.10)	18d	26-Nov-15	30d	23-Jan-17	01-Mar-17	-8d	-355d
	18d	26-Nov-15	30d	23-Jan-17	01-Mar-17	0%	-355d
Mechanical Works (Zone #3.11)	88d	08-Oct-15	38d	27-Jun-16 A	04-Jan-17	293d	-281d
	12d	08-Oct-15	12d	18-Nov-16	01-Dec-16	319d	-331d
Mechanical Works (Zone #3.12)	12d	08-Oct-15	12d	18-Nov-16	01-Dec-16	0%	-331d
	70d	30-Oct-15	38d	27-Jun-16 A	04-Jan-17	22d	-281d
Mechanical Works (Zone #3.13)	6d	30-Oct-15	30d	27-Jun-16 A	22-Dec-16	-13d	-337d
	6d	06-Nov-15	6d	23-Dec-16	31-Dec-16	0%	-337d
Mechanical Works (Zone #3.14)	4d	18-Dec-15	35d	12-Sep-16 A	31-Dec-16	-13d	-303d
	24d	23-Dec-15	37d	19-Sep-16 A	04-Jan-17	22d	-281d
Mechanical Works (Zone #3.15)	0d	22-Jan-16	2d	31-Dec-16	04-Jan-17	30d	-281d
	0d	22-Jan-16	0d	22-Jan-16	31-Dec-16	0%	-13d
Mechanical Works (Zone #3.16)	0d	0d	0d	04-Jan-17	04-Jan-17	30d	-281d
	106d	20-Nov-15	86d	02-Dec-16	18-Mar-17	-33d	-287d
Mechanical Works (Zone #3.17)	106d	20-Nov-15	86d	02-Dec-16	18-Mar-17	-33d	-287d
	12d	20-Nov-15	6d	02-Dec-16	08-Dec-16	0%	-36d
Mechanical Works (Zone #3.18)	9d	04-Dec-15	9d	09-Dec-16	19-Dec-16	0%	-36d
	15d	15-Dec-15	15d	20-Dec-16	09-Jan-17	0%	-36d
Mechanical Works (Zone #3.19)	15d	05-Jan-16	15d	10-Jan-17	26-Jan-17	0%	-36d
	15d	05-Jan-16	15d	10-Jan-17	26-Jan-17	0%	-36d

Comprehensive Project Schedule & Resource Allocation Report									
Task ID	Task Name	Start Date	End Date	Duration (Days)	Progress (%)	Resources	Dependencies	Notes	Status
Phase 1: Foundation & Site Prep	101d	02-Sep-15	07-Oct-16	32d	100%	10-15	10-15	Excavate for Foundation	Completed
	102d	08-Mar-16	12-Jul-16	161d	100%	16-20	16-20	Foundation Footing and Wall	Completed
	103d	02-Sep-15	10-Jun-16	282d	100%	21-25	21-25	Site Clearing & Grading	Completed
	104d	05-Apr-16 A	24-Dec-16	282d	82%	26-30	26-30	Foundation Footing and Wall	In Progress
	105d	11-Jun-16	12-Jul-16	26d	100%	31-35	31-35	Foundation Footing and Wall	Completed
	106d	02-Sep-15	29-Jul-16	268d	100%	36-40	36-40	Foundation Footing and Wall	Completed
	107d	02-Jun-16	29-Jul-16	58d	100%	41-45	41-45	Foundation Footing and Wall	Completed
	108d	17-Sep-15	15-Mar-16	146d	100%	46-50	46-50	Foundation Footing and Wall	Completed
	109d	02-Sep-15	03-Mar-16	148d	100%	51-55	51-55	Foundation Footing and Wall	Completed
	110d	05-Dec-15	01-Jun-16	142d	100%	56-60	56-60	Foundation Footing and Wall	Completed
Phase 2: Trenches & Utilities	201d	02-Jun-16	28-Jul-16	47d	100%	61-65	61-65	Trenches, Drawings and Utilities (Summary)	Completed
	202d	13-Nov-15 A	18-Feb-17	245d	100%	66-70	66-70	Trenches, Drawings and Utilities (Summary)	Completed
	203d	18-Nov-16*	07-Jan-17	91d	100%	71-75	71-75	Trenches, Drawings and Utilities (Summary)	Completed
	204d	13-Nov-15 A	06-Dec-16	262d	88%	76-80	76-80	Trenches, Drawings and Utilities (Summary)	In Progress
	205d	05-Dec-15 A	16-Dec-16	362d	80.6%	81-85	81-85	Trenches, Drawings and Utilities (Summary)	In Progress
	206d	05-Apr-16 A	19-Dec-16	271d	75%	86-90	86-90	Trenches, Drawings and Utilities (Summary)	In Progress
	207d	11-Apr-16 A	24-Dec-16	321d	62%	91-95	91-95	Trenches, Drawings and Utilities (Summary)	In Progress
	208d	03-Dec-16	17-Feb-17	80d	100%	96-100	96-100	Trenches, Drawings and Utilities (Summary)	Completed
	209d	10-Aug-16 A	04-Jan-17	122d	55.6%	101-105	101-105	Trenches, Drawings and Utilities (Summary)	In Progress
	210d	06-Jan-17	18-Feb-17	35d	100%	106-110	106-110	Trenches, Drawings and Utilities (Summary)	Completed
Phase 3: Excavation & Pipe Installation	301d	20-Apr-16 A	04-Mar-17	315d	100%	111-115	111-115	Excavate for Drainage and Sewage (Part 1)	Completed
	302d	30-Nov-16	27-Jan-17	74d	100%	116-120	116-120	Excavate for Drainage and Sewage (Part 1)	Completed
	303d	20-Apr-16 A	06-Dec-16	271d	68%	121-125	121-125	Excavate for Drainage and Sewage (Part 2)	In Progress
	304d	25-Apr-16 A	13-Dec-16	222d	61%	126-130	126-130	Excavate for Drainage and Sewage (Part 2)	In Progress
	305d	18-Jul-16 A	20-Dec-16	282d	55%	131-135	131-135	Excavate for Drainage and Sewage (Part 2)	In Progress
	306d	05-Sep-16 A	24-Dec-16	322d	30%	136-140	136-140	Excavate for Drainage and Sewage (Part 2)	In Progress
	307d	26-Sep-16 A	31-Dec-16	362d	22.2%	141-145	141-145	Excavate for Drainage and Sewage (Part 2)	In Progress
	308d	06-Jan-17	04-Mar-17	47d	100%	146-150	146-150	Excavate for Drainage and Sewage (Part 2)	Completed
	309d	16-Aug-16 A	31-Mar-17	282d	83%	151-155	151-155	Excavate for Drainage and Sewage (Part 3)	In Progress
	310d	16-Aug-16 A	30-Dec-16	352d	157%	156-160	156-160	Excavate for Drainage and Sewage (Part 3)	In Progress
Phase 4: Final Installation & Testing	401d	18-Aug-16 A	12-Jan-17	244d	22.5%	161-165	161-165	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	402d	05-Sep-16 A	19-Jan-17	144d	18%	166-170	166-170	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	403d	08-Dec-16	26-Jan-17	144d	0%	171-175	171-175	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	404d	24-Dec-16	15-Feb-17	52d	0%	176-180	176-180	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	405d	06-Jan-17	31-Mar-17	322d	0%	181-185	181-185	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	406d	16-Mar-16	10-May-16	43d	100%	186-190	186-190	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	Completed
	407d	16-Mar-16	10-May-16	43d	100%	191-195	191-195	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	Completed
	408d	10-Jun-16 A	27-Jan-17	262d	60%	196-200	196-200	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	409d	15-Apr-16 A	10-Dec-16	262d	82%	201-205	201-205	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
	410d	05-May-16 A	16-Dec-16	252d	15%	206-210	206-210	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	In Progress
Phase 5: Final Connections & Handover	501d	12-Aug-16 A	16-Dec-16	152d	80%	211-215	211-215	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	502d	08-Jul-16 A	13-Dec-16	222d	85%	216-220	216-220	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	503d	16-May-16 A	23-Dec-16	282d	75%	221-225	221-225	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	504d	20-Jun-16 A	03-Jan-17	152d	82%	226-230	226-230	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	505d	25-Jul-16 A	09-Jan-17	132d	47.7%	231-235	231-235	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	506d	09-Dec-16*	16-Jan-17	30d	0%	236-240	236-240	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	507d	06-Jan-17	14-Mar-17	55d	0%	241-245	241-245	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	In Progress
	508d	23-Nov-15	19-Dec-15	24d	100%	246-250	246-250	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	Completed
	509d	23-Nov-15	19-Dec-15	24d	100%	251-255	251-255	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	Completed
	510d	15-Apr-16	07-Oct-16	145d	100%	256-260	256-260	Complete Terminal Foulwater M/H and Connect to Existing 225mm Tapping	Completed

Activity	Start	End	Duration	Progress	Notes		
Construct of New Concrete Footpath Pavement and Reinstatement of Verges	0d	0d	7d	0%	09-Dec-16	52d	Construct of New Concrete Footpath Pavement and Reinstatement of Verges
Reconstruction	0d	0d	35d	0%	13-Jan-17	31d	Bitument Pavement
Relocation of Fire Hydrant and Street Lamp by Authority or Others	0d	0d	8d	0%	01-Dec-16	65d	Relocation of Fire Hydrant and Street Lamp by Authority or Others
Submit M.S. for Installation of HV Switchboards	147d	08-Apr-16	03-Oct-16	100%	16-Apr-17	41d	CLP to install HV Switch Boards
CLP	91d	08-Apr-16	27-Jul-16	100%	18-Jan-17	51d	CLP to install HV Switch Boards
CLP	91d	08-Apr-16	27-Jul-16	100%	18-Jan-17	51d	CLP to install HV Switch Boards
CLP	91d	08-Apr-16	27-Jul-16	100%	18-Jan-17	51d	CLP to install HV Switch Boards
CLP	90d	22-Apr-16	20-Jul-16	100%	03-Jan-17	63d	CLP to install HV Switch Boards
Cables	0d	0d	18d	0%	31-Dec-16	49d	CLP to install HV cables
Cables	26d	08-Apr-16	09-May-16	100%	31-Dec-16	49d	Submit WR1 to CLP and CLP installation
Water and CLP inspection	6d	10-May-16	17-May-16	100%	11-Jan-17	197d	CLP installation
Water and energize power	6d	21-Jun-16	27-Jul-16	100%	18-Jan-17	144d	CLP installation
Water Meter Cabinet	26d	30-Jun-16	01-Aug-16	100%	17-Mar-17	20d	CLP installation
Water Meter Cabinet	26d	30-Jun-16	01-Aug-16	100%	17-Mar-17	20d	CLP installation
Water Meter Cabinet	0d	0d	60d	0%	17-Jan-17	23d	CLP installation
Part IV - Request for Inspection (Fresh Water Supply)	0d	0d	0d	0%	14-Feb-17	40d	CLP installation
Reinspection (Fresh Water Supply)	21d	04-Jul-16	01-Aug-16	100%	07-Mar-17	40d	CLP installation
Reinspection (Fresh Water Supply)	0d	0d	60d	100%	16-Apr-17	52d	CLP installation
Reinspection (Fresh Water Supply)	0d	0d	60d	100%	16-Apr-17	52d	CLP installation
Reinspection (Fresh Water Supply)	0d	0d	60d	100%	16-Apr-17	52d	CLP installation
Terminal Foulwater MH	0d	0d	60d	100%	16-Apr-17	52d	CLP installation
Terminal Foulwater MH	76d	16-Jun-16	03-Oct-16	100%	16-Mar-17	11d	CLP installation
Terminal Foulwater MH	76d	16-Jun-16	03-Oct-16	100%	16-Mar-17	11d	CLP installation
Terminal Foulwater MH	76d	16-Jun-16	03-Oct-16	100%	16-Mar-17	11d	CLP installation
Terminal Foulwater MH	20d	05-Sep-16	03-Oct-16	100%	06-Feb-17	39d	CLP installation
Terminal Foulwater MH	20d	24-Jun-16	22-Jul-16	100%	25-Jan-17	35d	CLP installation
Terminal Foulwater MH	20d	16-Jun-16	14-Jul-16	100%	16-Mar-17	41d	CLP installation
Terminal Foulwater MH	0d	0d	75d	100%	31-Jan-17	279d	CLP installation
Terminal Foulwater MH	0d	0d	71d	100%	27-Jan-17	20d	CLP installation
Terminal Foulwater MH	0d	0d	71d	100%	27-Jan-17	20d	CLP installation
Terminal Foulwater MH	0d	0d	71d	100%	27-Jan-17	20d	CLP installation
Terminal Foulwater MH	0d	0d	0d	0%	02-Dec-16*	57d	CLP installation
Terminal Foulwater MH	0d	0d	46d	0%	17-Jan-17	57d	CLP installation
Terminal Foulwater MH	0d	0d	0d	0%	02-Dec-16*	59d	CLP installation
Terminal Foulwater MH	0d	0d	46d	0%	17-Jan-17	59d	CLP installation
Terminal Foulwater MH	0d	0d	27d	41.3%	14-Dec-16	11d	IC Certifies M.S. for Installation of Emergency Genset
Terminal Foulwater MH	0d	0d	24d	47.83%	11-Dec-16	60d	IC Certifies M.S. for Installation of Cable
Terminal Foulwater MH	0d	0d	0d	0%	02-Dec-16*	64d	IC Certifies M.S. for Installation of Control system (SCADA Panel/LCP)
Terminal Foulwater MH	0d	0d	46d	0%	17-Jan-17	64d	IC Certifies M.S. for Installation of ELV System
Terminal Foulwater MH	0d	0d	0d	0%	09-Dec-16*	20d	IC Certifies M.S. for Installation of ELV System
Terminal Foulwater MH	0d	0d	46d	0%	24-Jan-17	20d	IC Certifies M.S. for Installation of ELV System
Terminal Foulwater MH	0d	0d	35d	23.91%	22-Dec-16	32d	IC Certifies M.S. for Termination of Fiber Optic Cable
Terminal Foulwater MH	0d	0d	0d	0%	12-Dec-16*	20d	IC Certifies M.S. for Termination of Fiber Optic Cable
Terminal Foulwater MH	0d	0d	46d	0%	27-Jan-17	20d	Submit M.S. for installation of Earthing System
Terminal Foulwater MH	0d	0d	0d	0%	12-Dec-16*	62d	Submit M.S. for installation of Earthing System
Terminal Foulwater MH	0d	0d	46d	0%	27-Jan-17	62d	Submit M.S. for installation of Earthing System
Terminal Foulwater MH	0d	0d	75d	100%	31-Jan-17	279d	Submit M.S. for installation of Instrument
Terminal Foulwater MH	0d	0d	75d	100%	31-Jan-17	279d	Submit M.S. for installation of Instrument
Terminal Foulwater MH	0d	0d	0d	0%	07-Dec-16*	13d	Submit M.S. for installation of Instrument
Terminal Foulwater MH	0d	0d	20d	0%	27-Dec-16	13d	Submit M.S. for installation of Instrument
Terminal Foulwater MH	0d	0d	0d	0%	07-Dec-16*	10d	Submit M.S. for installation of Instrument
Terminal Foulwater MH	0d	0d	0d	0%	07-Dec-16*	10d	Submit M.S. for installation of Instrument

Task		Start	End	Progress	Dependencies	Notes
Installation of Pipe Racks and Supports	Installation of Pipe Bridge	0d	20d	01-Dec-16	20-Dec-16	0% -46d
	Installation of Pipe Bridge	0d	0d	30-Nov-16*	20-Dec-16	0% 314d
Installation of Composting System (Star Screen)	Installation of Composting System (Star Screen)	0d	20d	01-Dec-16	20-Dec-16	0% 314d
	Installation of Pipeline	0d	0d	20-Sep-16 A	17-Oct-16 A	100%
	Installation of Pumpset and Rotating Equipment	0d	20d	02-Aug-16 A	07-Dec-16	56.52% -48d
Installation of Mechanical Support and Structure	Installation of Mechanical Support and Structure	0d	27d	25-Jun-16 A	14-Dec-16	41.3% -56d
	Installation of Mechanical Support and Structure	0d	0d	09-Dec-16*	09-Dec-16*	0% 302d
Installation of Mechanical Support and Structure	Installation of Mechanical Support and Structure	0d	30d	10-Dec-16	08-Jan-17	0% 302d
	Installation of Electric Heater	0d	0d	07-Dec-16*	07-Dec-16*	0% 20d
Installation of Electric Heater	Installation of Electric Heater	0d	17d	08-Dec-16	24-Dec-16	0% 20d
	Installation of CHP & ASP Stack	0d	0d	07-Dec-16*	07-Dec-16*	0% 15d
Installation of CHP & ASP Stack	Installation of CHP & ASP Stack	0d	15d	08-Dec-16	22-Dec-16	0% 15d
	Installation of Wastewater Treatment Plant (WWTP)	0d	53d	26-Aug-16 A	09-Jan-17	0% -31d
Installation of Lifting Appliance	Installation of Lifting Appliance	0d	0d	16-Dec-16*	16-Dec-16*	0% -25d
	Installation of Lifting Appliance	0d	46d	17-Dec-16	31-Jan-17	0% -25d
Installation of Tank	Installation of Tank	0d	0d	16-Dec-16*	16-Dec-16*	0% -43d
	Installation of Tank	0d	46d	17-Dec-16	31-Jan-17	0% -43d
Installation of Equipment, Valve and Instrument	Installation of Equipment, Valve and Instrument	0d	0d	30-Dec-16*	30-Dec-16*	0% -47d
	Installation of Equipment, Valve and Instrument	0d	30d	31-Dec-16	29-Jan-17	0% -47d
Installation of MVAC System	Installation of MVAC System	0d	71d	13-May-16 A	27-Jan-17	-22d
	Installation of MVAC System	0d	71d	13-May-16 A	27-Jan-17	-22d
Installation of MVAC System	Installation of MVAC System	0d	71d	13-May-16 A	27-Jan-17	-22d
	Installation of MVAC System	0d	0d	02-Dec-16*	02-Dec-16*	0% -12d
Installation of Lifting Platform	Installation of Lifting Platform	0d	46d	03-Dec-16	17-Jan-17	0% -12d
	Installation of Lifting Platform	0d	15d	13-May-16 A	02-Dec-16	67.39% -45d
Installation of Lifting Platform	Installation of Lifting Platform	0d	0d	12-Dec-16*	12-Dec-16*	0% -45d
	Installation of Lifting Platform	0d	46d	13-Dec-16	27-Jan-17	0% -45d
Installation of Lifting Platform	Installation of Lifting Platform	285d	142d	31-Aug-15 A	16-May-17	189d
	Installation of Lifting Platform	120d	135d	04-Jul-16 A	08-May-17	-35d
Installation of Lifting Platform	Installation of Lifting Platform	120d	135d	04-Jul-16 A	08-May-17	-35d
	Installation of Lifting Platform	120d	135d	04-Jul-16 A	08-May-17	-35d
Installation of Lifting Platform	Installation of Lifting Platform	0d	0d	04-Jul-16 A	27-Oct-16 A	100%
	Installation of Lifting Platform	24d	18-Apr-16	17-May-16	21-Nov-16	100% -156d
Installation of Lifting Platform	Installation of Lifting Platform	18d	12-May-16	02-Jun-16	25-Apr-17	0% -35d
	Installation of Lifting Platform	0d	0d	25-Apr-17	25-Apr-17	0% -35d
Installation of Lifting Platform	Installation of Lifting Platform	26d	03-Jun-16	05-Jul-16	08-May-17	0% -248d
	Installation of Lifting Platform	50d	04-Feb-16	09-Apr-16	25-Feb-17	0% -1d
Installation of Lifting Platform	Installation of Lifting Platform	0d	0d	28-Dec-16	28-Feb-17	0% 15d
	Installation of Lifting Platform	0d	50d	31-Dec-16	03-Mar-17	0% 15d
Installation of Lifting Platform	Installation of Lifting Platform	0d	53d	05-Jan-17	10-Mar-17	0% 9d
	Installation of Lifting Platform	155d	04-Feb-16	15-Aug-16	03-Apr-17	220d
Installation of Lifting Platform	Installation of Lifting Platform	155d	04-Feb-16	15-Aug-16	03-Apr-17	220d
	Installation of Lifting Platform	155d	04-Feb-16	15-Aug-16	03-Apr-17	220d
Installation of Lifting Platform	Installation of Lifting Platform	18d	18-Apr-16	09-May-16	29-Nov-16	0% 43d
	Installation of Lifting Platform	12d	10-May-16	24-May-16	25-Nov-16	0% 43d
Installation of Lifting Platform	Installation of Lifting Platform	12d	10-May-16	24-May-16	01-Dec-16	0% 43d
	Installation of Lifting Platform	18d	25-May-16	15-Jun-16	28-Nov-16	0% 51d
Installation of Lifting Platform	Installation of Lifting Platform	0d	0d	05-Dec-16	08-Dec-16	0% 46d
	Installation of Lifting Platform	0d	3d	05-Dec-16	07-Dec-16	0% 43d
Installation of Lifting Platform	Installation of Lifting Platform	18d	16-Jun-16	07-Jul-16	25-Jan-17	0% -167d

Project Overview		Key Dates & Metrics				Resource Allocation			Performance Indicators		Risk Management			Compliance & Reporting		
Task ID	Task Name	Start Date	End Date	Duration (Days)	Progress (%)	Personnel	Equipment	Material Cost (\$)	Quality Score	Risk Level	Mitigation Strategy	Regulatory Status	Reporting Frequency	Last Audit	Next Audit	Compliance Status
001	Site Preparation	2024-01-15	2024-01-17	3	100%	5	Excavator	15000	95	Low	Weather Monitoring	Approved	Daily	2024-01-17	2024-01-24	Compliant
002	Foundation Laying	2024-01-18	2024-01-20	3	80%	8	Concrete Pump	20000	90	Medium	Foundation Inspection	Approved	Daily	2024-01-20	2024-01-27	Compliant
003	Structural Framework	2024-01-21	2024-01-23	3	60%	12	Steel Erection	30000	85	Medium	Structural Integrity Check	Approved	Daily	2024-01-23	2024-01-30	Compliant
004	Roofing Installation	2024-01-24	2024-01-26	3	40%	10	Roofing Crew	25000	80	Medium	Roof Leak Prevention	Approved	Daily	2024-01-26	2024-02-02	Compliant
005	Interior Finishing	2024-01-27	2024-01-29	3	20%	8	Painting	18000	75	Medium	Paint Quality Control	Approved	Daily	2024-01-29	2024-02-05	Compliant
006	Final Inspection	2024-01-30	2024-01-31	2	100%	3	Inspection Team	5000	98	Low	Final Safety Check	Approved	One-time	2024-01-31	2024-02-07	Compliant
007	Site Cleanup	2024-02-01	2024-02-03	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-02-03	2024-02-10	Compliant
008	Documentation	2024-02-04	2024-02-06	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-02-06	2024-02-13	Compliant
009	Handover	2024-02-07	2024-02-09	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-02-09	2024-02-16	Compliant
010	Project Summary	2024-02-10	2024-02-12	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-02-12	2024-02-19	Compliant
011	Client Meeting	2024-02-13	2024-02-15	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-02-15	2024-02-22	Compliant
012	Final Report	2024-02-16	2024-02-18	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-02-18	2024-02-25	Compliant
013	Project Closure	2024-02-19	2024-02-21	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-02-21	2024-02-28	Compliant
014	Site Handover	2024-02-22	2024-02-24	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-02-24	2024-03-01	Compliant
015	Documentation	2024-02-25	2024-02-27	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-02-27	2024-03-04	Compliant
016	Handover	2024-02-28	2024-03-01	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-03-01	2024-03-08	Compliant
017	Project Summary	2024-03-02	2024-03-04	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-03-04	2024-03-11	Compliant
018	Client Meeting	2024-03-05	2024-03-07	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-03-07	2024-03-14	Compliant
019	Final Report	2024-03-08	2024-03-10	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-03-10	2024-03-17	Compliant
020	Project Closure	2024-03-11	2024-03-13	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-03-13	2024-03-20	Compliant
021	Site Handover	2024-03-14	2024-03-16	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-03-16	2024-03-23	Compliant
022	Documentation	2024-03-17	2024-03-19	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-03-19	2024-03-26	Compliant
023	Handover	2024-03-20	2024-03-22	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-03-22	2024-03-29	Compliant
024	Project Summary	2024-03-23	2024-03-25	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-03-25	2024-04-01	Compliant
025	Client Meeting	2024-03-26	2024-03-28	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-03-28	2024-04-04	Compliant
026	Final Report	2024-03-29	2024-03-31	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-03-31	2024-04-07	Compliant
027	Project Closure	2024-04-01	2024-04-03	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-04-03	2024-04-10	Compliant
028	Site Handover	2024-04-04	2024-04-06	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-04-06	2024-04-13	Compliant
029	Documentation	2024-04-07	2024-04-09	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-04-09	2024-04-16	Compliant
030	Handover	2024-04-10	2024-04-12	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-04-12	2024-04-19	Compliant
031	Project Summary	2024-04-13	2024-04-15	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-04-15	2024-04-22	Compliant
032	Client Meeting	2024-04-16	2024-04-18	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-04-18	2024-04-25	Compliant
033	Final Report	2024-04-19	2024-04-21	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-04-21	2024-04-28	Compliant
034	Project Closure	2024-04-22	2024-04-24	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-04-24	2024-05-01	Compliant
035	Site Handover	2024-04-25	2024-04-27	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-04-27	2024-05-04	Compliant
036	Documentation	2024-04-28	2024-04-30	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-04-30	2024-05-07	Compliant
037	Handover	2024-05-01	2024-05-03	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-05-03	2024-05-10	Compliant
038	Project Summary	2024-05-04	2024-05-06	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-05-06	2024-05-13	Compliant
039	Client Meeting	2024-05-07	2024-05-09	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-05-09	2024-05-16	Compliant
040	Final Report	2024-05-10	2024-05-12	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-05-12	2024-05-19	Compliant
041	Project Closure	2024-05-13	2024-05-15	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-05-15	2024-05-22	Compliant
042	Site Handover	2024-05-16	2024-05-18	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-05-18	2024-05-25	Compliant
043	Documentation	2024-05-19	2024-05-21	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-05-21	2024-05-28	Compliant
044	Handover	2024-05-22	2024-05-24	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-05-24	2024-05-31	Compliant
045	Project Summary	2024-05-25	2024-05-27	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-05-27	2024-06-03	Compliant
046	Client Meeting	2024-05-28	2024-05-30	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-05-30	2024-06-06	Compliant
047	Final Report	2024-05-31	2024-06-02	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-06-02	2024-06-09	Compliant
048	Project Closure	2024-06-03	2024-06-05	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-06-05	2024-06-12	Compliant
049	Site Handover	2024-06-06	2024-06-08	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-06-08	2024-06-15	Compliant
050	Documentation	2024-06-09	2024-06-11	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-06-11	2024-06-18	Compliant
051	Handover	2024-06-12	2024-06-14	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-06-14	2024-06-21	Compliant
052	Project Summary	2024-06-15	2024-06-17	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-06-17	2024-06-24	Compliant
053	Client Meeting	2024-06-18	2024-06-20	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-06-20	2024-06-27	Compliant
054	Final Report	2024-06-21	2024-06-23	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-06-23	2024-06-30	Compliant
055	Project Closure	2024-06-24	2024-06-26	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-06-26	2024-07-03	Compliant
056	Site Handover	2024-06-27	2024-06-29	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-06-29	2024-07-06	Compliant
057	Documentation	2024-06-30	2024-07-02	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-07-02	2024-07-09	Compliant
058	Handover	2024-07-03	2024-07-05	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-07-05	2024-07-12	Compliant
059	Project Summary	2024-07-06	2024-07-08	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-07-08	2024-07-15	Compliant
060	Client Meeting	2024-07-09	2024-07-11	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-07-11	2024-07-18	Compliant
061	Final Report	2024-07-12	2024-07-14	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-07-14	2024-07-21	Compliant
062	Project Closure	2024-07-15	2024-07-17	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-07-17	2024-07-24	Compliant
063	Site Handover	2024-07-18	2024-07-20	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-07-20	2024-07-27	Compliant
064	Documentation	2024-07-21	2024-07-23	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-07-23	2024-07-30	Compliant
065	Handover	2024-07-24	2024-07-26	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-07-26	2024-08-02	Compliant
066	Project Summary	2024-07-27	2024-07-29	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-07-29	2024-08-05	Compliant
067	Client Meeting	2024-07-30	2024-08-01	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-08-01	2024-08-08	Compliant
068	Final Report	2024-08-02	2024-08-04	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-08-04	2024-08-11	Compliant
069	Project Closure	2024-08-05	2024-08-07	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-08-07	2024-08-14	Compliant
070	Site Handover	2024-08-08	2024-08-10	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-08-10	2024-08-17	Compliant
071	Documentation	2024-08-11	2024-08-13	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-08-13	2024-08-20	Compliant
072	Handover	2024-08-14	2024-08-16	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-08-16	2024-08-23	Compliant
073	Project Summary	2024-08-17	2024-08-19	3	100%	2	Reporting	6000	90	Low	Final Report	Approved	Weekly	2024-08-19	2024-08-26	Compliant
074	Client Meeting	2024-08-20	2024-08-22	3	100%	4	Client Meeting	12000	95	Low	Feedback Session	Approved	One-time	2024-08-22	2024-08-29	Compliant
075	Final Report	2024-08-23	2024-08-25	3	100%	2	Reporting	8000	90	Low	Final Review	Approved	Weekly	2024-08-25	2024-09-01	Compliant
076	Project Closure	2024-08-26	2024-08-28	3	100%	3	Client Meeting	10000	95	Low	Final Review	Approved	One-time	2024-08-28	2024-09-04	Compliant
077	Site Handover	2024-08-29	2024-08-31	3	100%	4	Excavator	12000	95	Low	Debris Removal	Approved	Daily	2024-08-31	2024-09-07	Compliant
078	Documentation	2024-09-01	2024-09-03	3	100%	2	Office Staff	8000	90	Low	Record Keeping	Approved	Weekly	2024-09-03	2024-09-10	Compliant
079	Handover	2024-09-04	2024-09-06													





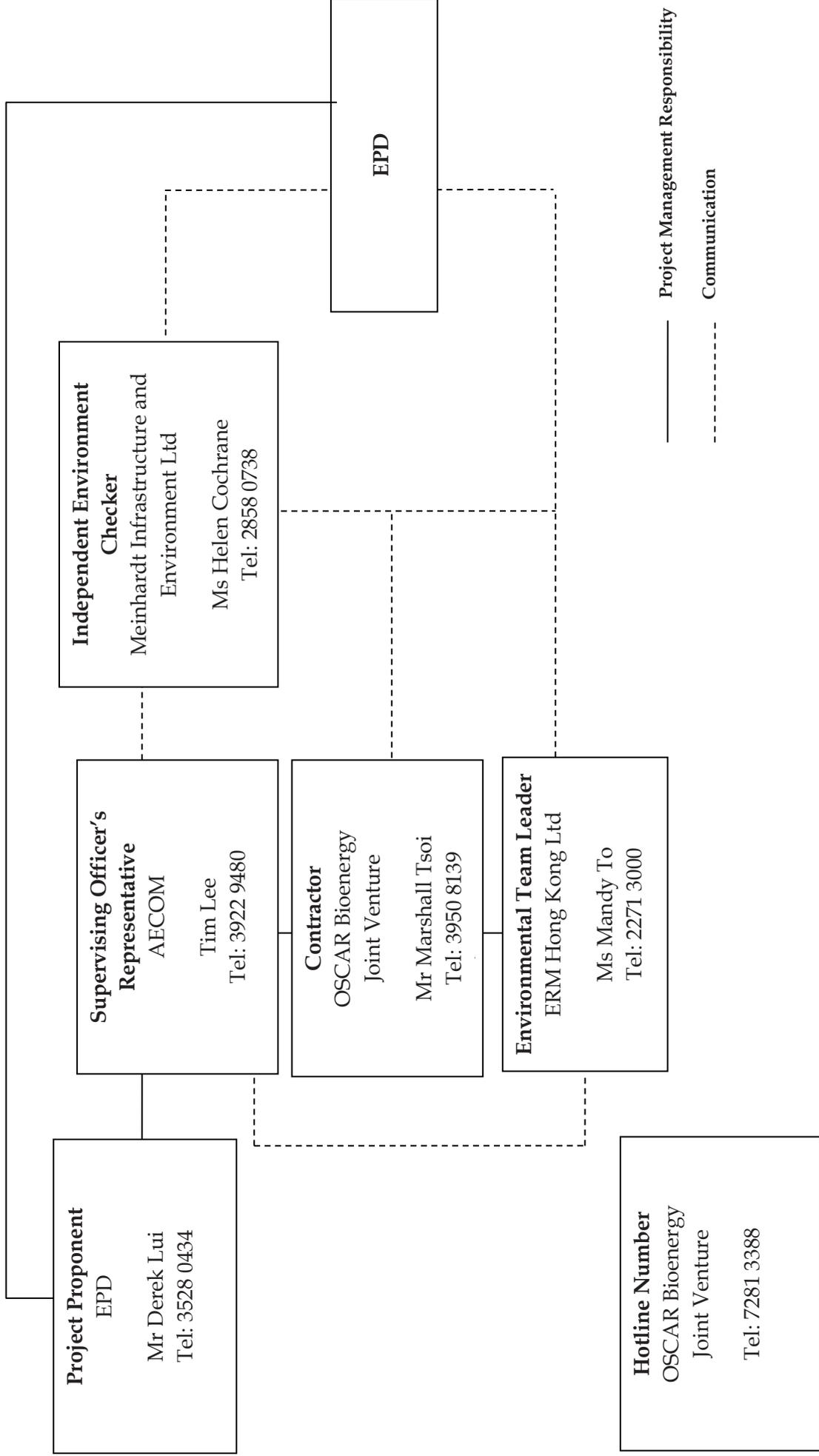
Project Information		Schedule		Financials		Performance		
Project ID	Project Name	Start Date	End Date	Budget (USD)	Actual Spend (USD)	Progress (%)	Health Status	
001	Water Treatment Plant Installation (All Buildings)	001-001	2023-01-15	2023-03-31	150000	148000	98%	On Track
		001-002	2023-02-01	2023-04-15	200000	195000	97%	On Track
		001-003	2023-03-01	2023-05-31	300000	290000	96%	On Track
		001-004	2023-04-01	2023-06-30	450000	440000	97%	On Track
		001-005	2023-05-01	2023-07-31	600000	590000	98%	On Track
002	Pump Installation in Building 1	002-001	2023-01-20	2023-02-28	75000	74000	98%	On Track
		002-002	2023-02-15	2023-03-31	100000	98000	98%	On Track
		002-003	2023-03-10	2023-04-15	150000	148000	98%	On Track
		002-004	2023-04-05	2023-05-10	200000	198000	99%	On Track
		002-005	2023-05-01	2023-05-31	275000	270000	98%	On Track
003	Pipework Installation (All Buildings)	003-001	2023-01-10	2023-02-28	120000	118000	98%	On Track
		003-002	2023-02-05	2023-03-31	180000	175000	97%	On Track
		003-003	2023-03-01	2023-04-15	250000	245000	98%	On Track
		003-004	2023-04-01	2023-05-15	350000	340000	97%	On Track
		003-005	2023-05-01	2023-06-15	480000	470000	98%	On Track
004	HVAC System Installation (All Buildings)	004-001	2023-01-25	2023-03-31	200000	195000	97%	On Track
		004-002	2023-02-20	2023-04-30	300000	290000	96%	On Track
		004-003	2023-03-15	2023-05-31	400000	390000	97%	On Track
		004-004	2023-04-10	2023-06-30	500000	490000	98%	On Track
		004-005	2023-05-05	2023-07-31	650000	640000	98%	On Track
005	Electrical System Upgrade	005-001	2023-02-01	2023-03-31	100000	98000	98%	On Track
		005-002	2023-03-01	2023-04-30	150000	145000	96%	On Track
		005-003	2023-04-01	2023-05-31	200000	190000	95%	On Track
		005-004	2023-05-01	2023-06-30	250000	240000	96%	On Track
		005-005	2023-06-01	2023-07-31	300000	290000	96%	On Track
006	Plumbing & Drainage System	006-001	2023-01-15	2023-02-28	80000	78000	97%	On Track
		006-002	2023-02-15	2023-03-31	120000	115000	95%	On Track
		006-003	2023-03-15	2023-04-30	180000	170000	94%	On Track
		006-004	2023-04-15	2023-05-31	250000	240000	96%	On Track
		006-005	2023-05-15	2023-06-30	350000	340000	97%	On Track
007	IT Infrastructure Upgrade	007-001	2023-01-20	2023-02-28	60000	58000	96%	On Track
		007-002	2023-02-20	2023-03-31	90000	85000	94%	On Track
		007-003	2023-03-20	2023-04-30	120000	110000	91%	On Track
		007-004	2023-04-20	2023-05-31	150000	140000	93%	On Track
		007-005	2023-05-20	2023-06-30	180000	170000	94%	On Track
008	Security System Installation	008-001	2023-02-01	2023-03-31	90000	88000	97%	On Track
		008-002	2023-03-01	2023-04-30	130000	125000	96%	On Track
		008-003	2023-04-01	2023-05-31	170000	160000	94%	On Track
		008-004	2023-05-01	2023-06-30	210000	200000	95%	On Track
		008-005	2023-06-01	2023-07-31	260000	250000	96%	On Track
009	Fire Safety System Upgrade	009-001	2023-01-10	2023-02-28	70000	68000	97%	On Track
		009-002	2023-02-10	2023-03-31	100000	95000	95%	On Track
		009-003	2023-03-10	2023-04-30	140000	130000	93%	On Track
		009-004	2023-04-10	2023-05-31	180000	170000	94%	On Track
		009-005	2023-05-10	2023-06-30	230000	220000	95%	On Track
010	Energy Efficiency Project	010-001	2023-01-25	2023-03-31	110000	108000	97%	On Track
		010-002	2023-02-25	2023-04-30	160000	155000	96%	On Track
		010-003	2023-03-25	2023-05-31	210000	200000	95%	On Track
		010-004	2023-04-25	2023-06-30	260000	250000	96%	On Track
		010-005	2023-05-25	2023-07-31	320000	310000	96%	On Track
011	Facilities Management System	011-001	2023-02-01	2023-03-31	80000	78000	97%	On Track
		011-002	2023-03-01	2023-04-30	120000	115000	95%	On Track
		011-003	2023-04-01	2023-05-31	160000	150000	93%	On Track
		011-004	2023-05-01	2023-06-30	200000	190000	95%	On Track
		011-005	2023-06-01	2023-07-31	240000	230000	95%	On Track
012	Data Center Relocation	012-001	2023-01-15	2023-02-28	50000	48000	96%	On Track
		012-002	2023-02-15	2023-03-31	75000	70000	93%	On Track
		012-003	2023-03-15	2023-04-30	100000	95000	95%	On Track
		012-004	2023-04-15	2023-05-31	125000	120000	96%	On Track
		012-005	2023-05-15	2023-06-30	150000	145000	96%	On Track
013	Construction Site Preparation	013-001	2023-01-20	2023-02-28	60000	58000	96%	On Track
		013-002	2023-02-20	2023-03-31	90000	85000	94%	On Track
		013-003	2023-03-20	2023-04-30	120000	110000	91%	On Track
		013-004	2023-04-20	2023-05-31	150000	140000	93%	On Track
		013-005	2023-05-20	2023-06-30	180000	170000	94%	On Track
014	Site Remediation Project	014-001	2023-02-01	2023-03-31	70000	68000	97%	On Track
		014-002	2023-03-01	2023-04-30	100000	95000	95%	On Track
		014-003	2023-04-01	2023-05-31	130000	120000	92%	On Track
		014-004	2023-05-01	2023-06-30	160000	150000	93%	On Track
		014-005	2023-06-01	2023-07-31	190000	180000	94%	On Track
015	Infrastructure Upgrade	015-001	2023-01-10	2023-02-28	40000	38000	95%	On Track
		015-002	2023-02-10	2023-03-31	60000	55000	91%	On Track
		015-003	2023-03-10	2023-04-30	80000	75000	93%	On Track
		015-004	2023-04-10	2023-05-31	100000	95000	95%	On Track
		015-005	2023-05-10	2023-06-30	120000	115000	95%	On Track
016	Renovation Project	016-001	2023-01-25	2023-03-31	50000	48000	96%	On Track
		016-002	2023-02-25	2023-04-30	75000	70000	93%	On Track
		016-003	2023-03-25	2023-05-31	100000	95000	95%	On Track
		016-004	2023-04-25	2023-06-30	125000	120000	96%	On Track
		016-005	2023-05-25	2023-07-31	150000	145000	96%	On Track
017	New Building Construction	017-001	2023-02-01	2023-03-31	80000	78000	97%	On Track
		017-002	2023-03-01	2023-04-30	120000	115000	95%	On Track
		017-003	2023-04-01	2023-05-31	160000	150000	93%	On Track
		017-004	2023-05-01	2023-06-30	200000	190000	95%	On Track
		017-005	2023-06-01	2023-07-31	240000	230000	95%	On Track
018	Equipment Replacement	018-001	2023-01-15	2023-02-28	60000	58000	96%	On Track
		018-002	2023-02-15	2023-03-31	90000	85000	94%	On Track
		018-003	2023-03-15	2023-04-30	120000	110000	91%	On Track
		018-004	2023-04-15	2023-05-31	150000	140000	93%	On Track
		018-005	2023-05-15	2023-06-30	180000	170000	94%	On Track
019	Facilities Expansion	019-001	2023-02-01	2023-03-31	70000	68000	97%	On Track
		019-002	2023-03-01	2023-04-30	100000	95000	95%	On Track
		019-003	2023-04-01	2023-05-31	130000	120000	92%	On Track
		019-004	2023-05-01	2023-06-30	160000	150000	93%	On Track
		019-005	2023-06-01	2023-07-31	190000	180000	94%	On Track
020	Energy Audit & Optimization	020-001	2023-01-10	2023-02-28	50000	48000	96%	On Track
		020-002	2023-02-10	2023-03-31	75000	70000	93%	On Track
		020-003	2023-03-10	2023-04-30	100000	95000	95%	On Track
		020-004	2023-04-10	2023-05-31	125000	120000	96%	On Track
		020-005	2023-05-10	2023-06-30	150000	145000	96%	On Track
021	Facilities Relocation	021-001	2023-01-25	2023-03-31	60000	58000	96%	On Track
		021-002	2023-02-25	2023-04-30	90000	85000	94%	On Track
		021-003	2023-03-25	2023-05-31	120000	110000	91%	On Track
		021-004	2023-04-25	2023-06-30	150000	140000	93%	On Track
		021-005	2023-05-25	2023-07-31	180000	170000	94%	On Track
022	New System Implementation	022-001	2023-02-01	2023-03-31	80000	78000	97%	On Track
		022-002	2023-03-01	2023-04-30	120000	115000	95%	On Track
		022-003	2023-04-01	2023-05-31	160000	150000	93%	On Track
		022-004	2023-05-01	2023-06-30	200000	190000	95%	On Track
		022-005	2023-06-01	2023-07-31	240000	230000	95%	On Track
023	Facilities Upgrade	023-001	2023-01-15	2023-02-28	60000	58000	96%	On Track
		023-002	2023-02-15	2023-03-31	90000	85000	94%	On Track
		023-003	2023-03-15	2023-04-30	120000	110000	91%	On Track
		023-004	2023-04-15	2023-05-31	150000	140000	93%	On Track
		023-005	2023-05-15	2023-06-30	180000	170000	94%	On Track
024	Facilities Expansion	024-001	2023-02-01	2023-03-31	70000	68000	97%	On Track
		024-002	2023-03-01	2023-04-30	100000	95000	95%	On Track
		024-003	2023-04-01	2023-05-31	130000	120000	92%	On Track
		024-004	2023-05-01	2023-06-30	160000	150000	93%	On Track
		024-005	2023-06-01	2023-07-31	190000	180000	94%	On Track
025	New System Implementation	025-001	2023-01-10	2023-02-28	50000	48000	96%	On Track
		025-002	2023-02-10	2023-03-31	75000	70000	93%	On Track
		025-003	2023-03-10	2023-04-30	100000	95000	95%	On Track
		025-004	2023-04-10	2023-05-31	125000	120000	96%	On Track
		025-005	2023-05-10	2023-06-30	150000	145000	96%	On Track
026	Facilities Upgrade	026-001	2023-01-25	2023-03-31	60000	58000	96%	On Track
		026-002	2023-02-25	2023-04-30	90000	85000	94%	On Track
		026-003	2023-03-25	2023-05-31	120000	110000	91%	On Track
		026-004	2023-04-25	2023-06-30	150000	140000	93%	On Track
		026-005	2023-05-25	2023-07-31	180000	170000	94%	On Track
027	New System Implementation	027-001	2023-02-01	2023-03-31	80000	78000	97%	On Track
		027-002	2023-03-01	2023-04-30	120000	115000	95%	On Track
		027-003	2023-04-01	2023-05-31	160000	150000	93%	On Track
		027-004	2023-05-01	2023-06-30	200000	190000	95%	On Track
		027-005	2023-06-01	2023-07-31	240000	230000	95%	On Track
028	Facilities Expansion	028-001	2023-01-15	2023-02-28	60000	58000	96%	On Track
		028-002	2023-02-15	2023-03-31	90000	85000	94%	On Track
		028-003	2023-03-15	2023-04-30	120000	110000	91%	On Track
		028-004	2023-04-15	2023-05-31	150000	140000	93%	On Track
		028-005	2023-05-15	2023-06-30	180000	170000	94%	On Track
029	New System Implementation	029-001	2023-02-01	2023-03-31	70000	68000	97%	On Track
		029-002	2023-03-01	2023-04-30	100000	95000	95%	On Track
		029-003	20					



Annex D

## Project Organization Chart with Contact Details

Project Organization During Construction Phase (with contact details)



Annex E

## Implementation Schedule of Mitigation Measures

Annex E Summary of Mitigation Measures Implementation Schedule

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/Timing	Status
<i>Summary of Environmental Mitigation Measures in the EIA and EM&amp;A Manual</i>				
A. Air Quality				
3.73	2.5	<p><u>Air Pollution Control (Construction Dust) Regulation &amp; Good Site Practices</u></p> <ul style="list-style-type: none"> <li>• Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.</li> <li>• Use of frequent watering for particularly dusty construction areas and areas close to ASRs.</li> <li>• Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines.</li> <li>• Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>• Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>• Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>• Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>• Imposition of speed controls for vehicles on unpaved site roads. 8 kilometers per hour is the recommended limit.</li> <li>• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.</li> <li>• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</li> <li>• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.</li> <li>• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.</li> </ul>	Construction Site / During Construction Period	<>
B. Hazard to Life				
4.102	3.3	<p><u>Construction Phase</u></p> <ul style="list-style-type: none"> <li>• The number of workers on site during construction stage should be kept at the same level as</li> </ul>	Construction Site / During Construction Period	√

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<p>the assessment.</p> <ul style="list-style-type: none"> <li>• Construction works should be suspended when delivery of chlorine takes place.</li> <li>• 3m high fence should be constructed along the boundary facing the SHWWTW.</li> <li>• Emergency evacuation procedures should be formulated and the Contractor should ensure all workers on site should be familiar with these procedures as well as the route to escape in case of gas release incident. Relevant Departments, such as Fire Services Department (FSD), should be consulted during the development of Emergency procedures. Diagram showing the escape routes to a safe place should be posted in the site notice boards and at the entrance/exit of site. A copy of the latest version emergency procedures should be dispatched to Tung Chung Fire Station for reference once available.</li> <li>• The emergency procedures should specify means of providing a rapid and direct warning (e.g. Siren and Flashing Light) to construction workers in the event of chlorine gas release in the SHWWTW.</li> <li>• The Contractor should establish a communication channel with the SHWWTW operation personnel and FSD during construction stage. In case of any hazardous incidents in the treatment works, operation personnel of SHWWTW should advise the Contractor to inform construction workers to proceed with emergency procedure. The Contractor should appoint a Liaison Officer to communicate with FSD Incident Commander on site in case of emergency.</li> <li>• Introduction training should be provided to any staff before carryout construction works at the Project site.</li> <li>• Periodic drills should be coordinated and conducted to ensure all construction personnel are familiar with the emergency procedures. Upon completion of the drills, a review on every step taken should be conducted to identify area of improvement. Prior notice of periodic drills should be given to Station Commander of Tung Chung Fire Station. Joint operational exercise with FSD and SHWWTW is recommended.</li> </ul>		
5.44	C. Water Quality 4.5	<p><u>Construction site run-off and general construction activities:</u> The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.</p>	Construction Site / During Construction Period	<>
5.45	4.5	<p><u>Excavation of Soil Materials</u> The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons. This prevents soil erosion from exposed soil surfaces. Any exposed soil surfaces should also be properly protected to minimise dust emission. In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided. Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles of</p>	Construction Site / During Construction Period	<>

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		materials should be placed at locations away from any stream courses so as to avoid releasing materials into the water bodies. Final surfaces of earthworks should be compacted and protected by permanent work.		
5.46	4.5	<i>Accidental spillage of chemicals:</i> Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Construction Site / During Construction Period	√
5.47	4.5	Maintenance of vehicles and equipments involving activities with potential for leakage and spillage should only be undertaken within the areas which appropriately equipped to control these discharges.	Construction Site / During Construction Period	√
5.48	4.5	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	Construction Site / During Construction Period	<>
5.49	4.5	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: <ul style="list-style-type: none"> <li>• Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>• Chemical waste containers should be suitably labeled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>• Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>	Construction Site / During Construction Period	<>
5.50		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid entering to the nearby watercourses. Stockpiles of cement and other construction materials should be kept covered when not being used. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. It is recommended to clean the construction sites on a regular basis.	Construction Site / During Construction Period	<>
5.51	4.5	<u>Sewage Effluent</u>	Work site/ During the	√

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		The presence of construction workers generates sewage. It is recommended to provide sufficient chemical toilets in the works areas. The toilet facilities should be more than 30m from any watercourse. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.	construction period	
5.52	4.5	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.	Work Site / During Construction Period	√
5.53	4.5	<p><u>Nullah Decking</u></p> <p>To minimize the potential water quality impacts from the nullah reconstruction works, the practices outlined below should be adopted where applicable:</p> <ul style="list-style-type: none"> <li>• The proposed works should be carried out within the dry season between October and March when the flow in the open nullah is low.</li> <li>• The use of less or smaller construction plants may be specified to reduce the disturbance to the nullah bed.</li> <li>• Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from the nullah and any water courses during carrying out of the construction works.</li> <li>• Stockpiling of construction materials and dusty materials should be covered and located away from the nullah any water courses.</li> <li>• Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nullah and nearby water receivers.</li> <li>• Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the nullah, where practicable.</li> <li>• Construction effluent, site run-off and sewage should be properly collected and/or treated.</li> <li>• Any works site inside the nullah should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the water quality.</li> <li>• Proper shoring may need to be erected in order to prevent soil/ mud from slipping into the nullah and nearby watercourse.</li> <li>• Supervisory staff should be assigned to station</li> </ul>	Work Site / During Construction Period	N/A
<i>D. Waste Management</i>				
6.41	5.4	<u>Good Site Practices</u>	Work Site / During	<>

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<p>Recommendations for good site practices during the construction phase would include:</p> <ul style="list-style-type: none"> <li>• Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);</li> <li>• Provide staff training for proper waste management and chemical handling procedures;</li> <li>• Provide sufficient waste disposal points and regular waste collection;</li> <li>• Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>• Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> <li>• Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and</li> <li>• Employ licensed waste collector to collect waste.</li> </ul>	Construction Period	
6.42	5.5	<p><u>Waste Reduction Measures</u></p> <p>Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>• Design foundation works that could minimise the amount of excavated material to be generated;</li> <li>• Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling;</li> <li>• Sort out demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (i.e. soil, broken concrete, metal etc.);</li> <li>• Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>• Encourage the collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; and</li> <li>• Plan and stock construction materials carefully to minimize the amount of waste to be generated and to avoid unnecessary generation of waste.</li> </ul>	Work Site/ During Design & Construction Period	<>
6.44	5.7	<p><u>Excavated and C&amp;D Materials</u></p> <p>In order to minimise the impact resulting from collection and transportation of C&amp;D material for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:</p> <ul style="list-style-type: none"> <li>• A WMP, which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TCW No.19/2005;</li> </ul>	Work Site/ During Design & Construction Period	√

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
6.45 - 6.46	5.8 - 5.9	<ul style="list-style-type: none"> <li>A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and</li> <li>In order to monitor the disposal of excavated and C&amp;D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to ETWB TCW No. 31/2004).</li> </ul> <p>An EMP should be prepared and implemented in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. The EMP should be submitted to the Supervising Officer (SO) and Supervising Officer's Representative (SOR) for approval. The EMP should be reviewed regularly and updated, preferably on a monthly basis.</p> <p>A system should be devised to work for on-site sorting of excavated and C&amp;D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.</p>	Work Site/ During Design & Construction Period	√
6.47	5.10	<p><u>Chemical Waste</u></p> <p>Should chemical wastes be produced at the construction site, the Contractor would be required to register with 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, or corrosive). The Contractor should employ a licensed collector to transport and dispose of the chemical wastes, to either the CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) General Regulation.</p>	Work Site / During Construction Period	<>
6.48	5.11	<p><u>General Refuse</u></p> <p>General refuse should be stored in enclosed bins or compaction units separated from C&amp;D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&amp;D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	Work Site / During Construction Period	<>
E. 7.99 & Table 7.7	<u>Landscape and Visual</u> Table 6.1	<p><u>Construction Phase</u></p> <ul style="list-style-type: none"> <li>Topsoil, where identified, should be stripped and stored for re-use in the construction of the</li> </ul>	Work site/ During Design & Construction Stages	√

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<p>soft landscape works, where practical</p> <ul style="list-style-type: none"> <li>• Compensatory tree planting should be provided to compensate for felled trees.</li> <li>- Compensation tree species shall be chosen from both indigenous and ornamental species</li> <li>- Compensatory tree planting quantities shall be as per DLO approved requirement.</li> <li>• Control of night-time lighting</li> <li>• Erection of decorative screen hoarding compatible with the surrounding setting</li> </ul>		
<i>F. Noise</i>				
8.25	7.3	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program;</li> <li>• Mobile plant, if any, should be sited as far from noise sensitive receivers (NSRs) as possible;</li> <li>• Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and</li> <li>• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	Work site/ During Design & Construction Stages	√

Remark:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by OSCAR Bioenergy JV
- Δ Deficiency of Mitigation Measures but rectified by OSCAR Bioenergy JV
- N/A Not Applicable in Reporting Period

Annex F

## Waste Flow Table

**No. EP/SP/61/10 of Organic Waste Treatment Facilities Phase I  
Monthly Summary Waste Flow Table**

Month	Actual Quantities of Inert C&D Materials Generated						Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated					
	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Hard Rocks & Large Broken Concrete	Disposed as Public Fill	Metals (see Note 1)	Paper/ cardboard packaging (see Note 1)	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse (see Note 3)		
	tonne	tonne	tonne	tonne	tonne	kilogram	kilogram	kilogram	Litre	tonne		
May 2015	29.58	0.00	0.00	0.00	29.58	0.00	0.00	0.00	0.00	0.00		
June 2015	2226.90	0.00	0.00	0.00	2226.90	0.00	0.00	0.00	0.00	9.66		
July 2015	2832.27	0.00	0.00	0.00	2832.27	0.00	0.00	0.00	0.00	33.68		
August 2015	6657.25	0.00	0.00	0.00	6657.25	0.00	20.00	0.00	0.00	55.06		
September 2015	5467.05	0.00	0.00	0.00	5467.05	3480.00	0.00	0.00	0.00	83.81		
October 2015	5419.04	0.00	0.00	0.00	5419.04	18710.00	0.00	0.00	0.00	20.45		
November 2015	1375.26	0.00	0.00	0.00	1375.26	21610.00	0.00	0.00	0.00	17.38		
December 2015	2199.56	75.28	0.00	0.00	2124.28	0.00	41.00	0.00	0.00	21.83		
January 2016	4601.43	0.00	0.00	0.00	4601.43	18140.00	50.00	0.00	640.00	20.86		
February 2016	4167.01	0.00	0.00	0.00	4167.01	510.00	79.00	0.00	0.00	16.57		
March 2016	299.92	41.28	0.00	0.00	258.64	22320.00	75.00	0.00	0.00	22.69		
April 2016	3186.37	98.37	0.00	0.00	3088.00	60690.00	77.00	0.00	255.00	37.63		
May 2016	1612.33	63.41	0.00	0.00	1548.92	13490.00	35000.00	0.00	0.00	40.76		
June 2016	1144.73	30.43	0.00	0.00	1114.30	14600.00	120.00	0.00	0.00	58.34		
July 2016	662.76	0.00	0.00	0.00	662.76	13370.00	0.00	0.00	0.00	40.48		
August 2016	391.88	0.00	0.00	0.00	391.88	18660.00	84.00	0.00	0.00	61.91		
September 2016	324.35	0.00	0.00	0.00	324.35	56800.00	2780.00	0.00	0.00	138.25		
October	1561.82	0.00	39.00	0.00	1522.82	40000	9300.00	0.00	700.00	114.47		
November	897.23 (See Note 4)	507.94	00.00	0.00	389.76	0.00	123000.00	0.00	0.00	154.22		

Total	45074.12	816.24	39.00	0.00	44218.88	302380.00	170626.00	0.00	1595.00	948.05
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- Notes:
- (1) Metal and paper/cardboard packaging were collected by recycler for recycling.
  - (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material collected by recycler for recycling.
  - (3) General refuse was disposed of at NENT by subcontractors.
  - (4) In total, 897.23 tonnes of inert C&D material were generated from the Project, of which the 389.76 tonnes were disposed as public fill to Fill Bank at Tuen Mun Area 38 in reporting period.

Annex G

Environmental Complaint,  
Environmental Summons  
and Persecution Log

**Annex G Cumulative Complaint and Summons/Prosecutions Log**

<b>Reporting Month</b>	<b>Number of Complaints in Reporting Month</b>	<b>Number of Summons/Prosecutions in Reporting Month</b>
May 2015	0	0
June 2015	0	0
July 2015	0	0
August 2015	0	0
September 2015	0	0
October 2015	0	0
November 2015	0	0
December 2015	0	0
January 2016	0	0
February 2016	0	0
March 2016	0	0
April 2016	0	0
May 2016	0	0
June 2016	0	0
July 2016	0	0
August 2016	0	0
September 2016	0	0
October 2016	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2016	0	0
<b>Overall Total</b>	<b>0</b>	<b>0</b>

Annex H

# Investigation Report of Environmental Non- Compliance

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10  
Organic Waste Treatment Facilities  
Phase 1:  
*Non-Compliance Investigation Report*

27 September 2016

**Environmental Resources Management**

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INVESTIGATION REPORT

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10  
Organic Waste Treatment Facilities  
Phase 1:  
*Non-Compliance Investigation Report*

27 September 2016

Reference 0279222

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by:	 (Environmental Team Leader - Mandy To)
Certified by:	 (Independent Environmental Checker - Helen Cochrane)
Date:	27 September 2016

**Investigation Report of Environmental Non-Compliance**

Date	25 Aug 2016
Time	09:45 a.m.
Monitoring Location	Temporary waste water treatment facilities at P1 of the Site (Detailed location and photos shown on the marked drawing DR-PSC-00-0CN-1005 attached as <b>Appendix A</b> )
Weather	Fine
Parameter	Water (WPCO Effluent Discharge License attached as <b>Appendix B</b> )
Incident Description	<ol style="list-style-type: none"> <li>1. Po Shing is OSCAR's civil work subcontractor who is responsible to construct, operate and maintain the site waste water treatment facilities.</li> <li>2. In mid-August 2016, OSCAR requested Po Shing to replace the honeycomb filter of a sedimentation tank in order to ensure the site waste water treatment facilities can maintain its performance.</li> <li>3. On 25 August 2016, Po Shing assigned a worker to carry out some preparation works for filter replacement by using some water to clean the sedimentation tank (Cleaning procedure attached as <b>Appendix C</b>).</li> <li>4. During the cleaning process, the labour mistakenly disconnected the piping between the sedimentation tank and the subsequent waste water treatment tank.</li> <li>5. The washing water flowed out through the overflow pipe to the ground.</li> <li>6. Some of excess washing water eventually split into the Nullah for about 5 minutes.</li> <li>7. Sand bag were provided along the edge of Nullah since March 2016 to avoid surface runoff entering the Nullah from P1 (Photos attached as <b>Appendix D</b>). During the incident period, the sand bags were still placed there.</li> </ol>
Action Taken / Action to be Taken	<ol style="list-style-type: none"> <li>1. Upon becoming aware of this incident, OSCAR immediately stopped the cleansing process and all operations relating to the waste water treatment tank in the morning of 25 August 2016.</li> <li>2. Two water samples had been taken under the supervision of EPD's and ER's representatives. The first water sample was taken at the discharge point on 25 August</li> </ol>

	<p>2016 and failed to pass the standards stipulated in the WPCO Effluent Discharge License. A second water sample was taken on 9 September 2016 which complied with the standards in the WPCO Effluent Discharge License. (The laboratory testing reports were attached as <b>Appendix E</b>).</p> <ol style="list-style-type: none"> <li>3. During the period where the wastewater treatment plant was not in operation, effluent was firstly collected in a sump pit for participation and soak away before pumping to the sedimentation tank.</li> <li>4. Cleaning process will be resumed once training is provided. During cleaning, all works will be carried out under close supervision of the assigned competent persons.</li> <li>5. Contractor will use concrete to properly cover all the sand bags and stabilize the sands dropped from broken sand bags to avoid the sands washed into the Nullah by surface runoff.</li> </ol>
<p>Remedial Works and Follow-up Actions</p>	<p>After the event, OSCAR immediately enforce the following actions to prevent the recurrence of the similar incident:</p> <ol style="list-style-type: none"> <li>1. In-House Rule        A set of in-house rules to govern the procedures of operation and maintenance for the waste water treatment system will be prepared and strictly imposed on site, which include the designation of competent person and the correct method of cleaning the tanks.</li> <li>2. Training        Training has been provided to the site personnel for the operation and maintenance of the waste water treatment system, particularly during maintenance and dismantling any part of the waste water treatment system (Training record is attached as <b>Appendix F</b>).</li> <li>3. Supervision        OSCAR will assign site supervisor to monitor future filter replacement works to ensure that all washing water will be retained in the waste water treatment tank and treated before discharge.</li> </ol>

OSCAR Bioenergy Joint Venture  
EP/SP/61/10 - Organic Waste Treatment Facilities Phase 1

	Operation of the wastewater treatment plant will be resumed upon notification to the Independent Consultant and the Engineer Representative.
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Prepared by: Leah Pak, ET representative

Date 28-September-2016

Appendix A

## Project Layout



shows the Waste Water Treatment Facility and DSD Nullah



Appendix B

# WPCO Effluent Discharge License

本署檔號  
Our Ref.: ( 11 ) in EP/RW/0000372289  
來函檔號  
Your Ref.:  
電話  
Tel. No.: 2417 6064  
電子郵件  
E-mail:  
圖文傳真  
Fax. No.: 2411 3073  
網址  
Homepage: <http://www.epd.gov.hk/>

**Environmental Protection Department**  
**Environmental Compliance Division**  
**Regional Office (West)**  
8/F, Tsuen Wan Government Offices,  
38 Sai Lau Kok Road,  
Tsuen Wan, New Territories



環境保護署  
環保法規管理科  
區域辦事處(西)  
新界荃灣西樓角路38號  
荃灣政府合署8樓

**BY REGISTERED POST**

OSCAR Bioenergy Joint Venture  
2801 Island Place Tower,  
510 King's Road,  
North Point, Hong Kong

21 MAY 2015

Dear Sir / Madam,

**Water Pollution Control Ordinance (WPCO)**  
**Western Buffer Water Control Zone**  
**Issue of Licence**

I refer to your application for a licence made under section 19 of the Ordinance for the discharge/deposit from your premises as stated in the licence. Further to your payment of the licence application fee on 14.05.2015, a licence pursuant to Section 20 is enclosed. Your attention is drawn to the details, terms and conditions subject to which the licence is granted. You should note in particular, the stipulated sampling, treatment and disposal requirements and should also read the notes at the back of the licence.

Please note that the granting of this licence to you does not imply that the discharge from your premises is in compliance with the required standards as stipulated in the licence. It is your responsibility to ensure that the terms and conditions of the licence are complied with.

You are reminded that it is an offence to contravene any of the provisions specified in the licence. The offender is liable to a fine of \$200,000 and to imprisonment for 6 months.

If you are aggrieved by any of the terms and conditions of the licence, you may appeal to the Appeal Board by lodging a notice of appeal under Section 29 in the prescribed manner and form within 21 days after receipt of this licence.

Should you have any enquiry, please feel free to contact Mr. Y.H. LAW at 2417 6086.

Yours faithfully,

(LAM Ka-ho )

for Director of Environmental Protection

Encl.: Discharge Licence

本署檔號  
Our Ref.: ( 11 ) in EP/RW/0000372289  
來函檔號  
Your Ref.:  
電話  
Tel. No.: 2417 6064  
電子郵件  
E-mail:

圖文傳真  
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**Environmental Protection Department**  
**Environmental Compliance Division**  
**Regional Office (West)**  
8/F, Tsuen Wan Government Offices,  
38 Sai Lau Kok Road,  
Tsuen Wan, New Territories



環境保護署  
環保法規管理科  
區域辦事處(西)  
新界荃灣西樓角路38號  
荃灣政府合署8樓

### 掛號郵件

OSCAR Bioenergy Joint Venture  
香港北角英皇道 510 號  
港運大廈 2801 室

先生 / 女士：

### 水污染管制條例 西部緩衝區水質管制區 發出排污牌照事宜

就閣下根據上稱條例第19條及牌照上所述地址所排放污水或沉積物而向本署遞交的牌照申請，本署於二零一五年五月十四日收到有關的牌照申請費用。現寄上根據本條例第20條而簽發的牌照。敬請留意發牌的細則、條件及規定，尤須注意有關取樣、處理及排放等事宜之規定。另請細讀牌照背頁的附註。

獲簽發此牌照並非表示排出的污水或污染物質已達到牌照中所規定的要求標準。閣下必須採取必要措施以確保能符合牌照中的條款。

請注意，任何人違反本牌照的任何條文，即屬犯罪，可處罰款二十萬元及監禁六個月。

假使閣下對牌照內所載條件及規定有所不滿，可於收到本牌照後21天內，按第29條的規定，以指定的方式及表格，向上訴委員會遞交上訴通知及提出上訴。

如有查詢，請致電 2417 6086 與本署的羅銳雄先生聯絡。

環境保護署署長  
(林嘉豪 代行)

附件：排污牌照



Licence No. : WT00021482-2015  
 牌照編號 :

This Licence is Valid to : 31/05/2020  
 本牌照有效期至 : 二零二零年五月三十一日

**ENVIRONMENTAL PROTECTION DEPARTMENT**  
**環境保護署**  
**WATER POLLUTION CONTROL ORDINANCE (CAP. 358)**  
**水污染管制條例(第358章)**  
**LICENCE PURSUANT TO SECTION 15-20/23A\***  
**按第15-20/23A\*條簽發的牌照**

The Director of Environmental Protection ("the Authority") grants this licence under the Water Pollution Control Ordinance ("the Ordinance") on the terms and conditions stated below.

環境保護署署長(「監督」)按下列的條款及條件，根據水污染管制條例(「本條例」)批給此牌照。

21 MAY 2015

Date  
日期

( LAM Ka-ho )  
For the Authority

監督 ( 林嘉豪 代行)

**PART A 甲部 : GENERAL TERMS 一般條款**

Name of Licensee ("the Licensee") 持牌人名稱(「持牌人」)	SITA Waste Services Limited, ATAL Engineering Limited and Ros-Roca, Sociedad Anonima jointly trading as OSCAR Bioenergy Joint Venture 昇達廢料處理有限公司、安樂工程有限公司及Ros-Roca, Sociedad Anonima 聯合經營的OSCAR Bioenergy Joint Venture
Discharge Premises ("the premises") 排放處所(「處所」)	Works Area at Portion 1 and 2 of the Construction Site of Organic Waste Treatment Facilities Phase 1 at Sham Fung Road, Siu Ho Wan, Lantau Island, Hong Kong (Contract No.: EP/SP/61/10) 香港大嶼山小蠔灣深豐路有機資源回收中心第1期的建築地盤工作區的第1和第2部分(合約編號: EP/SP/61/10)
Water Control Zone 水質管制區	North Western 西北部
Discharge Category 排放種類	Discharge of Industrial /-Commercial / Institutional* Trade Effluent 工業/商業/機構* 污水排放
Nature of Discharge and Wastewater Treatment Facilities 排放性質及廢水處理設施	Effluent Arising from Construction Site 由建築地盤所產生的廢水  Sedimentation Tank 沉澱池
Discharge Point(s) 排放點	Communal Storm Drain 公用雨水渠
Sampling Point(s) 取樣點	Discharge Outlet of Sedimentation Tank 沉澱池的出水口

\*Delete as appropriate  
將不適用者刪去

## PART B 乙部 : SPECIFIC CONDITIONS 特別條件

### B1. Limitations on Discharge 排放限制

The quantity and composition of any discharge from the premises shall not exceed the limits stated in the table below<sup>(Note a)</sup>. All figures are upper limits unless otherwise indicated. All units are expressed as concentration in milligramme per litre unless otherwise stated.

任何源自處所之排放的量和成份不得超過下表所列的限度<sup>(附註a)</sup>。除另予表明外，所有數字均為上限。除另予說明外，所有單位均以毫克/升的濃度表示。

Determinand 測量物	Limit 限度
Flow Rate (m <sup>3</sup> /day) 流量 (立方米 / 日)	40
pH (pH units in range) 酸鹼值(pH 單位上下限)	6-9
Suspended Solids 懸浮固體	30
Chemical Oxygen Demand 化學需氧量	80

### B2. Self-monitoring and Reporting 自行監測及報告

- The Licensee shall perform self-monitoring as and when required by the Authority.  
持牌人須在監督要求時進行自行監測。
- The Licensee shall sample the discharge at the Sampling Point(s) and, at his own expense carry out analyses in accordance with the sample type and measurement frequency specified for each determinand named below:-  
持牌人須在取樣點為排放抽取樣本，並依照下列指定的測量物、取樣形式及頻率，自資予以分析。

<u>Determinand 測量物</u>	<u>Unit 單位</u>	<u>Sample Type 取樣形式</u>	<u>Frequency 頻率</u>
Suspended Solids 懸浮固體	mg/L 毫克/升	Grab 隨意取集	Quarterly 每三個月

Results of these monitoring shall be summarized in a report on a ~~monthly~~ / ~~bi-monthly~~ / quarterly \* basis and shall be submitted to the Authority.

所有監測結果須以摘要形式，每一個月/兩個月/三個月\*作出報告，並須呈交監督審閱。

\*Delete as appropriate  
將不適用者刪去

## C 丙部 : STANDARD CONDITIONS 標準條件

### 1. The Discharge 排放

C1.1 The discharge shall not contain polychlorinated biphenyls (PCB), polyaromatic hydrocarbon (PAH), fumigant, pesticide or toxicant, chlorinated hydrocarbons, flammable or toxic solvents, calcium carbide; any substance likely to damage the sewer or to interfere with any of the treatment processes, or to be harmful to the health and safety of any personnel engaged in the operation or maintenance of a sewerage system; waste liable to form scum or deposits in any part of the drainage or sewerage system, or the waters of Hong Kong; waste liable to form discolouration in any parts of the waters of Hong Kong; sludge, floatable substances or solids larger than 10 mm; and sludge or solid refuse of any kind.

排放不得含有多氯聯苯、聚芳烴、薰蒸劑、殺蟲劑或毒劑、氯化烴、可燃的或有毒的溶劑、碳化鈣；會損毀污水渠結構或干擾任何處理程序的物質，或有損操作及維修排污系統人員健康及安全的任何物質；足以及在排水或排污系統，或香港水域任何範圍內形成浮渣或沉積物的廢物；足以及在香港水域任何範圍內形成變色的廢物；污泥、漂浮物質或體積超越 10 毫米的固體；及任何種類的污泥或固體垃圾。

C1.2 No discharge shall bypass the wastewater treatment facilities, the Sampling Point(s) or the Discharge Point(s) unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternative exists.

除非避免人命傷亡或嚴重財物損失或無其他可行代替辦法，排放不得繞流不經其廢水處理設施，取樣點或排放點。

C1.3 Dilution of the discharge to achieve compliance with the limits contained in this licence is prohibited.

不得將排放稀釋，以求達到本牌照內所訂的限度。

### C2. Flow Measurement 量度流量

The Licensee shall determine the flow rate of the discharge by installing, operating and maintaining a continuous flow measuring device with an accuracy certified by its manufacturer to be within plus or minus 3 percent of the actual flow, and calibrating the flow measuring device regularly according to manufacturer's recommendations. If no such device is installed, the Licensee shall determine the flow rate through using calculation methods agreed by the Authority, by making reference to the amount of water used in the premises being served by mains supply and other sources, less process consumption and any other losses.

持牌人必須設置、操作及保養一個連續性流量計作為測定排放的流量率之方法，其準確程度須經製造商證實為不超逾或低於真正流量的 3%，並應根據製造商建議的方法，定期校準流量計。如沒有設置該設備，持牌人須依照監督同意的計算方法，根據處所由自來水及其他水源供應的總用水量減去工序耗水量及其他耗水量來測定流量率。

### C3. Treatment 處理

C3.1 The Licensee shall provide necessary wastewater treatment facilities, and shall engage personnel with adequate qualification and experience to properly operate and maintain all wastewater treatment facilities at all times. Standby equipment shall be provided to guard against failure of major treatment equipment.

持牌人須提供必需的廢水處理設施，並須僱用有足夠資格及經驗的人士，時常妥善操作及保養所有廢水處理設施。主要處理設施須配有後備裝置，以應付故障發生。

C3.2 In the event of loss of efficiency of operation, or failure of all or part of the wastewater treatment facility, the Licensee shall take all reasonable steps to the extent necessary to maintain compliance with this licence. Such steps shall remain until operation of the wastewater treatment facility is restored or an alternative method of treatment is provided.

倘若部份或整個廢水處理設施操作失靈或發生故障，持牌人須採取所有必要的合理措施，以求達到符合本牌照的規定。此等措施須維持至廢水處理設施恢復如常操作或有其他代替的處理方法可供採用為止。

C3.3 If the wastewater treatment facilities are not properly operated and maintained to the satisfaction of the Authority, the Licensee shall take immediate and effective remedial actions as required by the Authority.

倘若廢水處理設施的操作及保養未能令監督滿意，持牌人須按監督之規定，採取即時及有效的補救行動。

### C4. Disposal 棄置

Sludges, screenings, solids, oil and grease, filter backwash, or other pollutants removed in the course of treatment shall be disposed of in a proper manner<sup>(Note b & c)</sup>.

處理過程中所產生的污泥、隔濾物、固體、油脂、過濾器回洗或其他污染物，必須妥善地棄置<sup>(附註 b 及 c)</sup>。

## C5. Monitoring 監測

- C5.1 The Licensee shall provide and maintain suitable facility such as an inspection chamber, manhole sampling valve at each Sampling Point to enable duly authorized officer(s) of the Authority to take samples of the discharge at any time from the premises.  
持牌人須在每一個取樣點提供及保養適當的設施，例如檢查槽，沙井或取樣閥，以確保獲監督授權的人員隨時可在處所內抽取排放樣本。
- C5.2 For self-monitoring, “grab samples” shall be taken during the period when the determinand to be analyzed for is likely to be present in its maximum concentration. “Composite samples” shall include samples taken over daily duration of the discharge.  
在自行監測中，「隨意取集樣本」須在測量物的濃度很可能是最高的那段時間內抽取。「綜合樣本」須包含在每日排放期間不同時候所抽取的樣本。
- C5.3 For self-monitoring, all samples shall be analyzed in accordance with the most updated analytical methods used by the Government Chemist <sup>(Note d)</sup>.  
在自行監測中，所有樣本均須按照政府化驗師所採用的最新分析方法予以分析<sup>(附註 d)</sup>。

## C6. Records and Reporting 紀錄及報告

- C6.1 The Licensee shall keep the following records in the premises for inspection by duly authorized officer(s) of the Authority:  
持牌人須在處所內保存下列紀錄，以備獲監督授權的人員隨時查閱：
- (i) records of flow rate, nature and composition of the discharge;  
排放流量率、性質及成份的紀錄；
  - (ii) updated records of all monitoring information, including all laboratory analytical results relating to samples taken, all original chart recordings for continuous flow and pH monitoring; and  
所有最新監測資料的紀錄，包括所有關於已取樣本的檢驗分析結果、所有連續性流量及酸鹼值監測記錄圖表的正本；及
  - (iii) records of all desludging and degreasing operation, and records of corresponding disposal operation.  
所有清除污泥和清理隔油池廢物工序的紀錄，及其棄置工序的紀錄。

Copies of all such records shall be submitted to the Authority upon request.

在監督要求時，須向監督呈交所有該等紀錄的副本。

- C6.2 The Licensee shall notify and explain to the Authority within 24 hours upon the occurrence of an accidental discharge or any emergency bypass or an overflow of untreated effluent or an operation upset which places the discharge in a temporary state of non-compliance with this licence. The Licensee shall within 7 days following the incident, submit to the Authority a detailed report in writing on the cause and duration of the non-compliance and steps taken or to be taken to reduce, eliminate, or prevent recurrence of such non-compliance. Reporting in accordance with this Condition does not relieve the Licensee of any obligations imposed by this licence.

倘若有未經處理的污水意外排放、緊急繞流或溢滿的事件或操作失靈，引至排放出現短暫不符合牌照規定的情況，持牌人須在事發後 24 小時內立即知會監督並予以解釋。持牌人須在事故發生後 7 天內，以書面報告，詳述事件的起因、違反牌照條件的時間及為減少、消除或防止類似事件再次發生所採取或將會採取的措施，送交監督審閱。然而，按照本條件的規定提交報告並不表示持牌人可獲免除承擔本牌照內所載的任何責任。

## C7. Operation Manual 操作手冊

The Licensee shall prepare an operation manual which shall include, as a minimum, operating procedures, inspection programme and repair and maintenance programme for the wastewater treatment facilities. The operation manual shall be kept at the aforesaid wastewater treatment facilities and a copy of the manual shall be submitted to the Authority upon request.

持牌人須擬備廢水處理設施的操作手冊。手冊內容須最低限度包括操作程序、檢查、維修及保養工作計劃表。該手冊須保存在上述廢水處理設施內。持牌人須在監督要求時，呈交手冊副本乙份。

## C8. Notification of Change 更改通知

The Licensee shall notify the Authority in writing within 14 days of any changes or proposed changes in the processes of manufacture or the nature of the raw materials used or of any other circumstances which may alter the nature and composition of the discharge or may result in the permanent cessation of the discharge.

倘若持牌人更改或擬更改其生產程序、或所用原料的性質、或有其他足以改變其排放的性質及成份或可導致永久性終止排放的事情，必須在 14 日內以書面通知監督。

- (a) For the purposes of determining compliance with the limits stated in Specific Condition B1, samples shall be taken by the duly authorized officer(s) of the Authority at the Sampling Point(s) or any other points from which the samples so taken are regarded by the Authority as being representative of the quality of the discharge. When any single sample analyzed for a determinand is proved not complying with corresponding limit set out in the table, the discharge is deemed to have failed to comply with Specific Condition B1.  
為確定排放是否符合特別條件第 B1 項內所列的限度，獲監督授權的人員須在取樣點或在監督認為可以抽取到具代表性的樣本的任何其他位置抽取樣本。只要在任何一個經分析的樣本中，證實任何一個測量物不符合表中所列的相應限度時，排放即被視為不符合特別條件第 B1 項。
- (b) An example of proper disposal method for sludge is sending dewatered sludge to landfill for disposal.  
妥善棄置污泥方法中的一個例子是將脫水後的污泥運往堆填區棄置。
- (c) Proper disposal of grease trap waste includes but is not limited to employing any reputable firm or collector who will use the right equipment and dispose of the collected grease trap waste at West Kowloon Transfer Station. The updated list of grease trap waste collectors who are using the disposal service at West Kowloon Transfer Station is maintained in the EPD website and Green Restaurant website.  
妥善的隔油池廢物棄置方法包括卻不限於聘用任何信譽良好的公司／收集商使用適當的設備在西九龍廢物轉運站棄置所收集的隔油池廢物。環保署網站及環保食肆網均載有目前使用西九龍廢物轉運站棄置隔油池廢物的收集商最新名單。
- (d) The Licensee may make reference to Annex 1 of the <Technical Memorandum on Effluent Standards> for analytical methods used by the Government Chemist.  
持牌人可參照「流出物標準技術備忘錄」附件 1 有關政府化驗師所採用的分析方法。
- (e) The Licensee shall keep this licence in the premises and make it available at all times for inspection by duly authorized officer(s) of the Authority.  
持牌人須在處所內保存此牌照，以備獲監督授權的人員隨時查閱。
- (f) (i) The Licensee shall allow duly authorized officer(s) of the Authority to enter the premises for the purposes of inspection, sampling, records examination or any other duties authorized by Section 37 and Section 38 of the Ordinance.  
持牌人須准許獲監督授權的人員進入處所內進行檢查、抽取樣本、審查紀錄或執行其他根據本條例第 37 及第 38 條所授權的職務。  
(ii) Where the premises has security measures in force which would require proper identification and clearance before entry, the Licensee shall make necessary arrangements such that upon presentation of evidence of identity and of authorization, duly authorized officer(s) will be permitted to enter, without delay, for the purposes of performing duties.  
倘若由於處所的保安理由而需先行鑑定來人的身份，持牌人必須作出必要的安排，以便獲授權人員在出示身份證明及授權文件後，即可內進執行其職務而不致受延誤。
- (g) (i) For a licence granted under Section 15 of the Ordinance, the Licensee may, not less than 2 months before expiry of the licence, apply under Section 19 of the Ordinance for a new licence. The Authority may grant the licence or otherwise.  
持有根據本條例第 15 條所批給牌照的人士，可於牌照屆滿前不少於 2 個月內，根據本條例第 19 條的規定，申請一面新牌照。監督可批給或拒絕批給牌照。  
(ii) For a licence granted under Section 20 or 23A of the Ordinance, the Licensee may, not more than 4 months and not less than 2 months before expiry of the licence, apply under Section 23 or 23A respectively of the Ordinance for renewal of licence. The Authority may renew the licence or otherwise.  
持有根據本條例第 20 條或第 23 A 條所批給牌照的人士，可於牌照屆滿前不多於 4 個月及不少於 2 個月內，根據本條例的第 23 或 23 A 條的規定，申請牌照續期。監督可將牌照續期或拒絕將牌照續期。
- (h) Under Section 24 of the Ordinance, the Authority may by notice in writing, impose new or amended terms and conditions on this licence or cancel this licence. Under Section 25, 26 and 27 of the Ordinance, a Licensee whose licence has been so varied or cancelled may be entitled to compensation.  
根據本條例第 24 條的規定，監督可以書面通知，向本牌照施加新訂或經修訂的條款及條件，或取消本牌照。根據本條例第 25、26 及 27 條的規定，被更改或取消牌照的持牌人可能會獲得補償。
- (i) Under Section 28 of the Ordinance, the Licensee may apply to the Authority for a variation of this licence.  
根據本條例第 28 條的規定，持牌人可向監督申請更改本牌照。
- (j) Under Section 49 of the Ordinance, this licence shall not be construed as a dispensation from the requirements of any other Ordinance except where that other Ordinance so provides.  
根據本條例第 49 條的規定，本牌照並不得解釋為豁免符合任何其他條例的規定，除非該其他條例如此訂定。

Appendix C

## Cleaning Procedure of Treatment Tank

**Cleaning Procedure Treatment Tank 清洗環保缸的程序**

update: 18 Jul., 16

1.	<p>The Treatment Tank will be cleaned thoroughly every three months or when the turbidity of the discharge is not satisfactory. 該處理設施會定期每三個月，或排水過於污濁時進行清洗。</p>
2.	<p>Close all the inlet and outlet valves of the Treatment Tank. 關閉接駁水缸出入水口。</p>
3.	<p>Employ a sewer sucking truck to remove all the residue sludge and water in the tank. 吸漿車放吸喉，開動水泵，進行吸漿。</p>
4.	<p>The sewer sucking truck will dispose the contents of the tank to TKO137 Fill Bank in accordance with the waste disposal regulations. 完成後，該吸漿車會前往將軍澳 137 公眾填料區傾倒。</p>
5.	<p>After the cleaning of the Tank, the first batch of treated waste water will be directed to the sedimentation tank for more than 10mins. (depends on site conditions) 如洗缸後地盤需要排水，排水需經軟喉引流回沉澱缸，排放約 10 分鐘(根據實際情況而定)。</p>
6.	<p>The remaining treated waste water will either be discharged at the discharging point as stated in the “Discharging License”, or return to the sedimentation tank. 處理經過的水缸水，可引流回沉澱缸，或排放出地盤。</p>
7.	<p>Record the time taken for discharging operation and estimate the quantity of discharge. 紀錄排水量、時間。</p>
8.	<p>Repeat item 1. 重覆項目 1。</p>
Note	<p>In case of inclement weather whereas the size of catchment, treatment and storage cannot handle the runoff, the overflows will be collected and circulate to the treatment tank with appropriate piping system. 如遇大雨/過量存水，過量的水會經軟喉引導回啡缸，循環來回。</p>

Appendix D

## Sand Bag Photo



March 2016



August 2016



September 2016

Appendix E

# Water Sample Laboratory Report



### CERTIFICATE OF ANALYSIS

Client	: ATKINS CHINA LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 2
Contact	: MS EVA KEUNG	Contact	: Fung Lim Chee, Richard	Work Order	: HK1634365
Address	: 13/F, WHARF T&T CENTRE, HARBOUR CITY, TSIM SHA TSUI, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: eva.keung@atkinsglobal.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2972 1553	Telephone	: +852 2610 1044		
Facsimile	: +852 2890 6343	Facsimile	: +852 2610 2021		
Project	: ORGANIC WASTE TREATMENT FACILITIES PHASE 1	Quote number	: ----	Date Samples Received	: 25-AUG-2016
Order number	: ----			Issue Date	: 05-SEP-2016
C-O-C number	: ----			No. of samples received	: 1
Site	: ----			No. of samples analysed	: 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 25-AUG-2016 to 02-SEP-2016.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

#### Specific Comments for Work Order: HK1634365

Sample(s) were received in ambient condition.  
Water sample(s) analysed and reported on an as received basis.

**This report may not be reproduced except with prior written approval from the testing laboratory.**

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

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics



**Analytical Results**

Sub-Matrix: WATER

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
<b>EA/ED: Physical and Aggregate Properties</b>				
EA002: pH Value	----	0.1	pH Unit	9.0
EA025: Suspended Solids (SS)	----	2	mg/L	37
<b>EP: Aggregate Organics</b>				
EP026C: Chemical Oxygen Demand	----	5	mg/L	7

**SAMPLE 1**  
 [25-AUG-2016]  
 HK1634365-001



### CERTIFICATE OF ANALYSIS

Client	: ATKINS CHINA LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 2
Contact	: MS EVA KEUNG	Contact	: Fung Lim Chee, Richard	Work Order	: HK1636761
Address	: 13/F, WHARF T&T CENTRE, HARBOUR CITY, TSIM SHA TSUI, KOWLOON HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: eva.keung@atkinsglobal.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2972 1553	Telephone	: +852 2610 1044		
Facsimile	: +852 2890 6343	Facsimile	: +852 2610 2021		
Project	: ORGANIC WASTE TREATMENT FACILITIES PHASE 1	Quote number	: ----	Date Samples Received	: 09-SEP-2016
Order number	: ----			Issue Date	: 20-SEP-2016
C-O-C number	: ----			No. of samples received	: 1
Site	: ----			No. of samples analysed	: 1

#### General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is: 09-SEP-2016 to 19-SEP-2016.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

#### Specific Comments for Work Order: HK1636761

Sample(s) were received in ambient condition.  
Water sample(s) analysed and reported on an as received basis.

**This report may not be reproduced except with prior written approval from the testing laboratory.**

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

Signatories	Position	Authorised results for
Fung Lim Chee, Richard	General Manager	Inorganics



**Analytical Results**

Sub-Matrix: WATER

Compound	CAS Number	Client sample ID		
		LOR	Client sampling date / time	Unit
<b>EA/ED: Physical and Aggregate Properties</b>				
EA002: pH Value	----	0.1		pH Unit
EA025: Suspended Solids (SS)	----	2		mg/L
<b>EP: Aggregate Organics</b>				
EP026C: Chemical Oxygen Demand	----	5		mg/L

**SAMPLE 1**  
 [09-SEP-2016]  
 HK1636761-001

Appendix F

## Training Record

### Record of Attendance of Training

<b>Training Session:</b>		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
<b>Date:</b>	7/9/2016	<b>Time (Safety):</b>	08:45am-09:00am					
<b>Safety Toolbox Talk topic:</b>		<b>Environmental Toolbox Talk Topic:</b>	污水處理					
<b>Training Tutor (Safety):</b>	Michael So / Eric Loh / Edward Leung / Samuel Lee	<b>Training Tutor Signature (Safety):</b>						
<b>Training Tutor (Environmental):</b>	Grant Hui / Ruby Law	<b>Training Tutor Signature (Environmental):</b>						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	<del>Au Chi Ming</del>	<del>歐志明</del>	<del>HRMK0110910</del>	<del>23/2/2019</del>	<del>OSCAR</del>	<del>吊機机手</del>	*	*
2	<del>Ma Kin Kong</del>	<del>馬健剛</del>	<del>HRJD0103562R</del>	<del>9/9/2016</del>	<del>OSCAR</del>	<del>管工</del>	*	*
3	<del>Chan Chi Yan</del>	<del>陳智仁</del>	<del>HRJD0191846R</del>	<del>20/10/2018</del>	<del>OSCAR</del>	<del>焊工</del>	*	*
4	<del>Fung Yuet Keung</del>	<del>馮越強</del>	<del>HRYL0092302R</del>	<del>22/1/2017</del>	<del>OSCAR</del>	<del>焊工</del>	*	*
5	<del>Tam Kai Tong</del>	<del>譚啓棠</del>	<del>SCW01109083R</del>	<del>17/2/2017</del>	<del>OSCAR</del>	<del>工人</del>	*	*
6	<del>Chow Kam-Sui</del>	<del>周金水</del>	<del>GC-245994R</del>	<del>12/12/2016</del>	<del>OSCAR</del>	<del>工人</del>	*	*
7	<del>Chu Chun Fat</del>	<del>朱振發</del>	<del>HRMK0115297</del>	<del>18/4/2019</del>	<del>OSCAR</del>	<del>工人</del>	*	*
8	<del>Cheng Ngai Wang</del>	<del>鄭毅弘</del>	<del>GC-355630R</del>	<del>17/11/2017</del>	<del>OSCAR</del>	<del>管工</del>	*	*
9	<del>Zhou Qingsheng</del>	<del>周慶生</del>	<del>HRJD0194348R</del>	<del>4/11/2018</del>	<del>OSCAR</del>	<del>工人</del>	*	*
10	<del>Li Kwok Ning (Vicky)</del>	<del>李國寧</del>	<del>HRJD0159520</del>	<del>11/3/2018</del>	<del>OSCAR</del>	<del>工人</del>	*	*

榮興

3

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016	Time (Safety):	08:45am-09:00am					
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic:	污水處理					
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee	Training Tutor Signature (Safety):						
Training Tutor (Environmental):	Grant Hui / Ruby Law	Training Tutor Signature (Environmental):						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Wong So Chai	黃蘇仔	GC-247005R	21/7/2017	OSCAR	工人	*	*
2	Cheung Hoi Lun	張海輪	HRYL0140773R	8/7/2018	OSCAR	金棚大王	*	*
3	Chow Shu Hei	周樹喜	HRJD0131456R	31/8/2017	OSCAR	工人	*	*
4	Leung Tsz Lung	梁子龍	SCW99155392R	6/11/2018	OSCAR	工人	*	*
5	Lee Wah Yi	李華兒	HRYL0154977R	17/12/2018	OSCAR	工人	*	*
6	Chui Ka Wai	徐家偉	HRYL0102934R	10/5/2017	OSCAR	工人	*	*
7	So Sam Tai	蘇三弟	SCW03176784R	28/2/2019	OSCAR	工人	*	*
8	Chow Kau	周九	HRYL0112539R	22/8/2017	OSCAR	工人	*	*
9	Chow Tai Hei	周帶喜	HRJD0117132R	31/3/2017	OSCAR	工人	*	*
10	Chow Kam Wah	周錦華	HRYL0096515R	8/6/2017	OSCAR	工人	*	*

榮興

(4)

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk- / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016							
Safety Toolbox Talk topic:	----- Environmental Toolbox Talk Topic: 污水處理							
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee							
Training Tutor (Environmental):	Grant Hui / Ruby Law							
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	SO TAI KAN	蘇大根	HRKT0024688R	27/04/2017	宏宗(保成)	普通工人	*	*
2	TSOI WAI NAM	蔡偉南	HRYL0039957R	26/04/2017	宏宗(保成)	電氣裝配工	*	*
3	LAM SHEIR MING	林社明	HRTW0012214	27/08/2016	宏宗(保成)	普通工人	*	*
4	YIP HING TIN	葉慶典	HRYL0116694R	10/10/2017	宏宗(保成)	普通工人	*	*
5	LI YEN TUN	李炎敦	SC130126Y0123	25/01/2016	宏宗(保成)	普通工人	*	*
6	Lin Yuliu	林玉流	HRTW0056965	10/4/2017	宏宗(保成)	普通工人	*	*
7	HOI-SZE-MING	蔡思明	HRYL0138411R	14/06/2018	宏宗(保成)	普通工人	*	*
8	CHAN MUK TUNG	陳木東	HRTW0062224R	12/08/2017	宏宗(保成)	操作工(挖掘機)	*	*
9	Tsang Kam Fai	曾錦輝	HRMK0033273R	12/08/2018	宏宗(保成)	操作工(挖掘機)	*	*
10	TSUI SHEUNG KEUNG	徐常強	HRJD0051106R	24/03/2015	宏宗(保成)	普通工人	*	*

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:		Time (Safety):						
Safety Toolbox Talk topic:		Time (Environmental):						
Training Tutor (Safety):		Environmental Toolbox Talk Topic:						
Training Tutor (Environmental):		Training Tutor Signature (Safety):						
		Training Tutor Signature (Environmental):						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	XU YANGZHI	徐楊志	HRJD0077520R	11/12/2015	宏宗(保成)	普通工人	*	*
2	Chow Chun Tim	周根添	HRJD0103445R	15/01/2017	宏宗(保成)	普通工人	*	*
3	Lam Pui-Chung	劉沛松	HRJD0131364R	8/7/2017	宏宗(保成)	普通工人	*	*
4	Mak Chun Shu	麥振樞	HRJD0132721R	15/07/2017	宏宗(保成)	普通工人	*	*
5	Lam Shui-Po	林水波	HRTW0071829R	26/02/2018	宏宗(保成)	普通工人	*	*
6	Wong Ping	王平	HRJD0161127R	12/4/2018	宏宗(保成)	挖掘操作工	*	*
7	Chan Wai Kwong	陳偉光	HRJD0161128R	27/04/2018	宏宗(保成)	普通工人	*	*
8	KAM KIT CHOI	甘傑財	HRJD0054842R	21/04/2017	宏宗(保成)	普通工人	*	*
9	LAW KA LAU	羅家流	HRJD0158955R	27/04/2018	宏宗(保成)	普通工人	*	*
10	TSANG KWONG YUEN	曾廣淵	HRKT0032087	22/08/2015	宏宗(保成)	普通工人	*	*

### Record of Attendance of Training

<b>Training Session:</b>		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )							
<b>Date:</b>		7/9/2016		Time (Safety):		-----		-----	
<b>Safety Toolbox Talk topic:</b>		-----		Time (Environmental):		08:45am-09:00am		污水處理	
<b>Training Tutor (Safety):</b>		Michael So / Eric Loh / Edward Leung / Samuel Lee		<b>Environmental Toolbox Talk Topic:</b>		-----		-----	
<b>Training Tutor (Environmental):</b>		Grant Hui / Ruby Law		<b>Training Tutor Signature (Safety):</b>		-----		-----	
<b>Training Tutor Signature (Environmental):</b>		-----		<b>Training Tutor Signature (Environmental):</b>		-----		-----	
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)	
1	Wong Po Cheung	黃保祥	HRTW0044737R	7/7/2016	宏宗(保成)	普通工人	*	*	
2	QIU CHUNYI	邱 春意	HRKT0084282	05/05/2018	宏宗(保成)	普通工人	*	*	
3	<del>Liu Meide</del>	<del>林美得</del>	<del>HRTW0035934</del>	<del>3/8/2016</del>	<del>宏宗(保成)</del>	<del>雜工</del>	<del>*</del>	<del>*</del>	
4	Yeung Hiu Shing	楊曉成	GC-072244R	5/9/2017	宏宗(保成)	石矢	*	*	
5	Cheng Yue	鄭裕	HRYL0114838R	17/9/2017	宏宗(保成)	石矢	*	*	
6	Ng Tam	吳淡	HRYL0117490R	1/11/2017	宏宗(保成)	石矢	*	*	
7	Lam Leung Tseng	林良層	HRKT0082275R	1/6/2018	宏宗(保成)	石矢	*	*	
8	Chung Shun	鍾舜	HRKT0068796R	27/9/2017	宏宗(保成)	石矢	*	*	
9	Weng Daqiang	翁達強	HRTW0039897	28/3/2016	宏宗(保成)	石矢	*	*	
10	Wong Hau Kwan	黃孝坤	HRJD0108287R	30/11/2016	宏宗(保成)	石矢	*	*	

東方

2

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:		7/9/2016						
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic: 污水處理						
Training Tutor (Safety):		Training Tutor Signature (Safety): Michael So / Eric Loh / Edward Leung / Samuel Lee						
Training Tutor (Environmental):		Training Tutor Signature (Environmental): Grant Hui / Ruby Law						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	<del>Ip Shiu Po</del>	<del>葉水波</del>	<del>HRTW0040208R</del>	<del>30/6/2016</del>	<del>宏宗(保成)</del>	<del>石矢</del>	<del>*</del>	<del>*</del>
2	<del>Chan To Lim</del>	<del>陳道帝</del>	<del>HRJD01920131R</del>	<del>9/11/2018</del>	<del>宏宗(保成)</del>	<del>普通工人</del>	<del>*</del>	<del>*</del>
3	<del>Cheng David</del>	<del>鄭旭澤</del>	<del>HRJD0169754R</del>	<del>17/5/2018</del>	<del>宏宗(保成)</del>	<del>機手</del>	<del>*</del>	<del>*</del>
4	<del>Cheung Sau-Chiu</del>	<del>張壽照</del>	<del>HRJD0084144R</del>	<del>24/3/2016</del>	<del>宏宗(保成)</del>	<del>機手</del>	<del>*</del>	<del>*</del>
5	<del>Leung Wah Kam</del>	<del>梁華錦</del>	<del>C13238R</del>	<del>22/5/2017</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
6	<del>Tse Ping Kwan</del>	<del>謝炳坤</del>	<del>HRJD0145523R</del>	<del>1/12/2017</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
7	<del>Huang Qingfeng</del>	<del>黃慶丰</del>	<del>HRJD0198365R</del>	<del>5/12/2018</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
8	<del>Man Ah Nung</del>	<del>文亞儂</del>	<del>HRKT0056007R</del>	<del>14/1/2017</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
9	<del>Liu Shenglu</del>	<del>劉盛爐</del>	<del>CA201302081</del>	<del>5/7/2016</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
10	<del>Wong Chiu Hoi</del>	<del>黃昭凱</del>	<del>HRKT0107893</del>	<del>28/4/2019</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>

### Record of Attendance of Training

<b>Training Session:</b>		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
<b>Date:</b>	7/9/2016	<b>Time (Safety):</b>	-----					
<b>Safety Toolbox Talk topic:</b>	-----	<b>Time (Environmental):</b>	08:45am-09:00am					
<b>Training Tutor (Safety):</b>	Michael So / Eric Loh / Edward Leung / Samuel Lee	<b>Environmental Toolbox Talk Topic:</b>	污水處理					
<b>Training Tutor (Environmental):</b>	Grant Hui / Ruby Law	<b>Training Tutor Signature (Safety):</b>	-----					
<b>Training Tutor Signature (Environmental):</b>	-----							
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Liu Kerong	劉克榮	HRTW0083378R	13/8/2018	宏宗(保成)	工人	*	* 梁長
2	Van A Yang	溫亞養	HRJD0131932R	10/7/2017	宏宗(保成)	工人	*	* 郭明
3	So Shing Fai	蘇盛輝	HRJD0146459R	16/12/2017	宏宗(保成)	扎鐵	*	*
4	Liu Fenceng	劉芬層	GC-081793R	25/12/2018	宏宗(保成)	釘板	*	*
5	Luo Jihan	羅繼寒	HRMK0053921	29/8/2016	宏宗(保成)	釘板	*	*
6	Cheung Chi Fai	張志輝	HRJD0188231R	22/9/2018	宏宗(保成)	工人	*	*
7	Li Weitian	李偉田	HRJD0142482R	13/10/2017	宏宗(保成)	工人	*	*
8	Ngai Chuen	魏泉	HRKT0109476R	19/5/2019	宏宗(保成)	工人	*	*
9	Ho Yip Fu	何業富	HRTW0089110R	2/11/2018	宏宗(保成)	工人	*	*
10	Kwan Yun Po	關潤波	HRYL0146015R	8/10/2017	宏宗(保成)	工人	*	*

東方

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### Record of Attendance of Training

<b>Training Session:</b>		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
<b>Date:</b>	7/9/2016	<b>Time (Safety):</b>	08:45am-09:00am					
<b>Safety Toolbox Talk topic:</b>		<b>Environmental Toolbox Talk Topic:</b>	污水處理					
<b>Training Tutor (Safety):</b>	Michael So / Eric Loh / Edward Leung / Samuel Lee	<b>Training Tutor Signature (Safety):</b>						
<b>Training Tutor (Environmental):</b>	Grant Hui / Ruby Law	<b>Training Tutor Signature (Environmental):</b>						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Kwan Yui Ming	關銳明	HRYL0113338R	31/8/2017	宏宗(保成)	工人	*	* MA
2	Lee Chak Hung	李澤雄	HRJD0205725R	17/2/2019	宏宗(保成)	工人	*	* 李
3	Li-Kang	李慷	HRTW0082320R	16/7/2018	宏宗(保成)	工人	*	*
4					宏宗(保成)		*	*
5					宏宗(保成)		*	*
6					宏宗(保成)		*	*
7					宏宗(保成)		*	*
8					宏宗(保成)		*	*
9					宏宗(保成)		*	*
10					宏宗(保成)		*	*

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016							
Safety Toolbox Talk topic:	Environmental Toolbox Talk Topic: 污水處理							
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee							
Training Tutor (Environmental):	Grant Hui / Ruby Law							
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	TSUI SHEUNG KEUNG	徐常強	HRJD0051106R	24/03/2017	宏宗(保成)	木工	*	*
2	XU YANGZHI	徐楊志	HRJD0077520R	11/12/2015	宏宗(保成)	木工	*	*
3	Chow Chun Tim	周振添	HRJD0103445R	15/04/2017	宏宗(保成)	木工	*	*
4	Lam Pui-Ghung	劉沛松	HRJD0131364R	8/7/2017	宏宗(保成)	木工	*	*
5	Mak Chun Shu	麥振樞	HRJD0132721R	15/07/2017	宏宗(保成)	木工	*	*
6	Lam Shui Po	林水波	HRTW0071829R	26/02/2018	宏宗(保成)	木工	*	*
7	Ng Chi Hung	吳智雄	HRMK0067762R	25/04/2017	宏宗(保成)	木工	*	*
8	Choy Hung Fai	蔡雄輝	HRJD0154078R	13/02/2018	宏宗(保成)	木工	*	*
9	FAN KAM SING	范錦星	SCW03129894		宏宗(保成)	木工	*	*
10		盧樂			宏宗(保成)	木工	*	*

東方(木工)

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk/ Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:		7/9/2016		Time (Safety):		-----		
Safety Toolbox Talk topic:		-----		Time (Environmental):		08:45am-09:00am		
Training Tutor (Safety):		Michael So / Eric Loh / Edward Leung / Samuel Lee		Environmental Toolbox Talk Topic:		污水處理		
Training Tutor (Environmental):		Grant Hui / Ruby Law		Training Tutor Signature (Safety):		-----		
				Training Tutor Signature (Environmental):				
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	LO HING CHUEN	盧慶泉	HRYL0112785R	09/09/2017	宏宗(保成)	木工	*	*
2	Tsoi, Kin Lam	蔡建林	SCW03162824	18/11/01	宏宗(保成)	木工	*	*
3	Fan Kam Sing	范錦星	SCW03129894R	04/05/2018	宏宗(保成)	釘板	*	*
4	Wong Tang Sun	黃騰新	HRJD0182138R	22/08/2018	宏宗(保成)	釘板	*	*
5	Law Kai Yin	羅啟賢	SCW03169376	23/07/2018	宏宗(保成)	木工	*	*
6	So Yiu	蘇堯	HRTW0068671R	23/11/2017	宏宗(保成)	工人	*	*
7	See Yiu Tong	施耀堂	HRKT0085834R	26/5/2018	宏宗(保成)	釘板	*	*
8	Yan Hon Kan	殷漢根	HRMK0062692R	6/3/2017	宏宗(保成)	工人	*	*
9	Lui Man Muk	呂文木	GC-072770R	27/9/2017	宏宗(保成)	釘板	*	*
10	Ng Kong Lun	吳江舜	HRJD0167132R	10/6/2018	宏宗(保成)	釘板	*	*

東方(木工)

### Record of Attendance of Training

<b>Training Session:</b>		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )							
<b>Date:</b>		7/9/2016		Time (Safety):		Time (Environmental):		08:45am-09:00am	
<b>Safety Toolbox Talk topic:</b>		Environmental Toolbox Talk Topic: 污水處理							
<b>Training Tutor (Safety):</b>		Training Tutor Signature (Safety):							
<b>Training Tutor (Environmental):</b>		Training Tutor Signature (Environmental):							
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)	
1	Siu Sit Ming	蕭燮明	HRJD0178328R	15/7/2018	宏宗(保成)	釘板	*	*	
2	Woo Tsang Wing	胡崢榮	HRJD0196294R	15/12/2018	宏宗(保成)	釘板	*	*	
3	Woo Wai Wan	胡偉環	HRTW0068960R	26/11/2017	宏宗(保成)	工人	*	*	
4							*	*	
5							*	*	
6							*	*	
7							*	*	
8							*	*	
9							*	*	
10							*	*	

東方(木工)

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016	Time (Safety):	-----					
Safety Toolbox Talk topic:	-----	Time (Environmental):	08:45am-09:00am					
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee	Environmental Toolbox Talk Topic:	污水處理					
Training Tutor (Environmental):	Grant Hui / Ruby Law	Training Tutor Signature (Safety):	-----					
		Training Tutor Signature (Environmental):	-----					
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Yeung Hong Fai	楊康輝	HRYL0093898R	16/5/2017	宏宗(保成)	測量	*	*
2	Lai Chi Kwan	黎志坤	HRYL0139005R	27/6/2018	宏宗(保成)	測量	*	*
3	Song Chenning	宋晨寧	HRYL0116481R	31/10/2017	宏宗(保成)	工人	*	*
4	Tang Yan Hong	唐燕鴻	SCW03155648	12/6/2017	宏宗(保成)	測量	*	*
5	Cheong Ka Wai	張家瑋	HRYL0131855	23/3/2018	宏宗(保成)	工人	*	*
6	Tsang Man Chit	曾文捷	SCW03145774	25/8/2016	宏宗(保成)	測量	*	*
7	Chan Yuk Chiu	陳玉朝	HRYL0108784R	25/8/2017	宏宗(保成)	測量	*	*
8	Chung Ming Fai	鍾明輝	HRJD02052982	14/2/2019	宏宗(保成)	工人	*	*
9	Lam Chun Kit	林進杰	HRYL00889548R	24/11/2016	宏宗(保成)	測量	*	*
10	Leung Ho Pan	梁浩彬	SCW03169493	29/7/2018	宏宗(保成)	工人	*	*

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:		7/9/2016						
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic: 污水處理						
Training Tutor (Safety):		Training Tutor Signature (Safety):						
Training Tutor (Environmental):		Training Tutor Signature (Environmental):						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	TAM FOR TING	譚文婷	GC-064349R	29/07/2016	宏宗(保成)	普通工人	*	*
2	WONG SIU PO	黃紹波	HRMK0044268	13/03/2016	宏宗(保成)	普通工人	*	*
3	Leung Chi Fung	梁致豐	HRMK0049343	10/06/2016	宏宗(保成)	Foreman	*	*
4	Ngan Hon Chai	顏漢釵	HRTW0036149R	22/02/2016	宏宗(保成)	Foreman	*	*
5	So, Wai Keung Warlian	蘇偉強	HRYL0098711	29/03/2017	宏宗(保成)	天秤/机手	*	*
6	Yip Pak Kay	葉栢奇	GC-079887R	10/11/2016	宏宗(保成)	吊机机手	*	*
7	Li Yeung Pan	李陽彬	SCW03138954	4/2/2016	宏宗(保成)	Q.S	*	*
8	Wong Chun Hey	黃鎮馭	HRJH0106970	23/10/2016	宏宗(保成)	AQS	*	*
9	Li Chak Him	李澤謙	CE21054	4/3/2016	宏宗(保成)	Grad E	*	*
10	Wong Kwun Faut	黃冠發	CE400132	19/5/2017	宏宗(保成)	intern	*	*

保成

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:		7/9/2016						
Safety Toolbox Talk topic:		----- Environmental Toolbox Talk Topic: 污水處理						
Training Tutor (Safety):		Michael So / Eric Loh / Edward Leung / Samuel Lee						
Training Tutor (Environmental):		Grant Hui / Ruby Law						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Heung Chun Kit	向俊傑	CE400045	19/5/2017	宏宗(保成)	intern	*	*
2	Wong Siu Leung	黃兆良	HRKT0082765	13/4/2018	宏宗(保成)	管工	*	*
3	Shing Wing Yat	盛永日	GC-211362	10/1/2018	宏宗(保成)	電工	*	*
4	Ting Chun Yu	丁俊宇	HRYL0097300R	14/3/2017	宏宗(保成)	電工	*	*
5	Leung Chi Hang	梁熾恒	HRJD0110015R	8/12/2016	宏宗(保成)	SO	*	*
6	Lo, Lit Cheong	羅烈昌	SCW03090567R	17/04/03	宏宗(保成)	雜工	*	*
7	Lam Hon-Man	林漢民	GC-077608R	31/07/2018	宏宗(保成)	雜工	*	*
8	Yu Fung	余峰	GC-361996R	18/07/10	宏宗(保成)	雜工	*	*
9	Chen Shaozhen	陳少貞	LTC-001360	19/08/2018	宏宗(保成)	雜工	*	*
10	Cai Chun Ming	蔡春明	HRTW0088092R	22/11/2018	宏宗(保成)	雜工	*	*

保成

### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016	Time (Safety):	08:45am-09:00am					
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic:	污水處理					
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee	Training Tutor Signature (Safety):						
Training Tutor (Environmental):	Grant Hui / Ruby Law	Training Tutor Signature (Environmental):						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Lam Kei Hei	林琪希	HRMK0074398	1/8/2017	宏宗(保成)	雜工	*	*
2	Yeung Yee Lan	楊綺蘭	SEITSC-002897R	22/7/2016	宏宗(保成)	清潔工人	*	*
3	Cheng Kong Yuen	鄭江源	HRKT0098491	30/11/2018	宏宗(保成)	雜工	*	*
4	Lui Siu Wan	呂少云	HRJD0172691R	28/7/2018	宏宗(保成)	雜工	*	*
5	Lin Yu Lin	林玉流	HRTW0056965	4/10/2017	宏宗(保成)	雜工	*	*
6	Cheng Wai Kwan	鄭偉君	HRTW0086006R	29/9/2018	宏宗(保成)	雜工	*	*
7	Wang Nan	王楠	HRTW0054836	15/12/2016	宏宗(保成)	雜工	*	*
8	Leung Yuk Long	梁沃朗	HRYL0076761	10/6/2016	宏宗(保成)	Engineer	*	*
9	Wong Lai Yee	黃麗儀	HRTW0093821	30/1/2019	宏宗(保成)	清潔	*	*
10	Wong Lai Kiu	黃麗嬌	HRYL0108840	16/7/2017	宏宗(保成)	雜工	*	*

保成

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016	Time (Safety):	'-----'					
Safety Toolbox Talk topic:	'-----'	Time (Environmental):	08:45am-09:00am					
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee	Environmental Toolbox Talk Topic:	污水處理					
Training Tutor (Environmental):	Grant Hui / Ruby Law	Training Tutor Signature (Safety):	'-----'					
		Training Tutor Signature (Environmental):	'-----'					
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Li Ngai Kuen	李毅權	SGW03081864R	30/7/2018	宏宗(保成)	管工	*	*
2	Chan Suen (Melody)	陳璿	HRKT0085743	24/5/2018	宏宗(保成)	Intern	*	*
3	Lau Wing Kin	劉永健	SCW03172623	26/10/2018	宏宗(保成)	AQS	*	*
4	Mai Suni	麥素妮	SEITSC-017245	2/6/20219	宏宗(保成)	工人	*	*
5	Ngo Shu Hoi	敖樹海	HRYL0173143R	29/5/2019	宏宗(保成)	AQS	*	*
6	Tsoi Wan Wah	蔡云華	GC-246034R	4/12/2016	宏宗(保成)	訊號員	*	*
7	Zeng Qiongying	曾琮英	SCW03167181	19/5/2018	宏宗(保成)	工人	*	*
8	Li Kwan	李君	HRJD0115347R	14/2/2017	宏宗(保成)	工人	*	*
9	Chan Ka Ming (Alex)	陳家銘	CWGC/SAF/02773R	23/10/2017	宏宗(保成)	工人	*	*
10	Tam Chi Wah	譚志華	SCW03146839R	21/11/2016	宏宗(保成)	管工	*	*

保成

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk- / Environmental Toolbox talk / Safety-Work Cycle / Others: (Day )						
Date:		7/9/2016						
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic: 污水處理						
Training Tutor (Safety):		Training Tutor Signature (Safety): Michael So / Eric Loh / Edward Leung / Samuel Lee						
Training Tutor (Environmental):		Training Tutor Signature (Environmental): Grant Hui / Ruby Law						
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Leung Chung Yan	梁松有	HRJD0130449R	21/06/2017	宏宗(保成)	札鐵 / 索具工	*	*
2	Sin Fook Shing	冼福成	HRYL0117486R	24/10/2017	宏宗(保成)	札鐵	*	*
3	Wong Siu Yin	黃兆然	HRJD0162074R	26/03/2018	宏宗(保成)	札鐵	*	*
4	So Shing	蘇勝	HRYL0095882R	5/3/2017	宏宗(保成)	札鐵	*	MS
5	Au Ping Leung	區秉良	HRITW0053388R	13/02/2017	宏宗(保成)	札鐵	*	*
6	TSE Kai Wah	謝啟華	SCW03166228	21/04/2018	宏宗(保成)	札鐵	*	字
7	Ho Kan Shing	何根成	HRYL0109477R	22/07/2017	宏宗(保成)	札鐵 / 索具工	*	字
8	Xie Yan Feng	謝燕峰	SCW03143231	10/6/2016	宏宗(保成)	札鐵	*	字
9	Chan Chi Yung	陳志勇	HRKT0089834	23/07/2018	宏宗(保成)	札鐵	*	*
10	Xie Yanbo	謝燕波	SCW0343230	10/6/2016	宏宗(保成)	札鐵	*	*

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk- / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )									
Date:		7/9/2016		Time (Safety):						Time (Environmental): 08:45am-09:00am	
Safety Toolbox Talk topic:		Environmental Toolbox Talk Topic: 污水處理									
Training Tutor (Safety):		Training Tutor Signature (Safety): Michael So / Eric Loh / Edward Leung / Samuel Lee									
Training Tutor (Environmental):		Training Tutor Signature (Environmental): Grant Hui / Ruby Law									
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)			
1	Wong Chi Ming	黃志明	HRYL013195R	30/03/2016	宏宗(保成)	札鐵	*	*			
2	Cong Man Nhat	江文日	HRYL009551R	4/3/2017	宏宗(保成)	札鐵	*	*			
3	Kwok Shui Hing	郭水興	HRYL0125309	20/01/2018	宏宗(保成)	鋼筋屈紮工	*	*			
4	Sin Kwong Lun	冼廣倫	HRYL0114346R	26/10/2017	宏宗(保成)	札鐵	*	*			
5	Li Hon Wa	李漢華	SGW03156428	02/07/2017	宏宗(保成)	札鐵	*	*			
6	Ngai Chi Wing	魏志榮	HRJD0118523R	10/3/2017	宏宗(保成)	札鐵	*	*			
7	Lee Chin Wah	李展華	HRKI0063814R	24/7/2017	宏宗(保成)	札鐵	*	*			
8	Chik Kin Wang	植健宏	HRYL0080626	29/7/2016	宏宗(保成)	札鐵	*	*			
9	Hon Wai Keung	韓偉強	GC-068752R	16/12/2016	宏宗(保成)	札鐵	*	*			
10	Yip Chui-Ching	葉翠青	HRYL0104053R	22/5/2017	宏宗(保成)	札鐵	*	*			

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### Record of Attendance of Training

Training Session:		Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )						
Date:	7/9/2016	Time (Safety):	'-----'					
Safety Toolbox Talk topic:	'-----'	Time (Environmental):	08:45am-09:00am					
Training Tutor (Safety):	Michael So / Eric Loh / Edward Leung / Samuel Lee	Environmental Toolbox Talk Topic:	污水處理					
Training Tutor (Environmental):	Grant Hui / Ruby Law	Training Tutor Signature (Safety):	'-----'					
		Training Tutor Signature (Environmental):	'-----'					
No.	Name of Trainee (英文名)	中文名	Green Card No (平安咭)	Expire Date (到期日)	Company (公司名)	Trade (工種)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	<del>Chau Chi Luen</del>	<del>周自聯</del>	<del>HRYL0099569R</del>	<del>15/4/2017</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
2	<del>Lam Koon Tak</del>	<del>林觀得</del>	<del>HRTW0053281R</del>	<del>16/2/2017</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
3	<del>Chan Po Kin</del>	<del>陳寶健</del>	<del>HRYL0116490R</del>	<del>6/10/2017</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
4	<del>Liu Chi Wai</del>	<del>廖志偉</del>	<del>HRYL0160933</del>	<del>27/1/2019</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
5	<del>Pang Chau Lam</del>	<del>彭秋林</del>	<del>HRJD0140895R</del>	<del>1/11/2017</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
6	<del>Lee Chin Pang</del>	<del>李展鵬</del>	<del>HRKT0089835</del>	<del>23/7/2016</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
7	<del>Tsui Wai Hung</del>	<del>徐偉洪</del>	<del>SC160301-17074</del>	<del>28/2/2019</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
8	<del>Chan Siu Por</del>	<del>陳少波</del>	<del>HRYL0097500R</del>	<del>30/4/2017</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>
9	<del>Au Yat Wai</del>	<del>區日威</del>	<del>SCW97900934</del>	<del>13/4/2017</del>	<del>宏宗(保成)</del>	<del>扎鐵</del>	<del>*</del>	<del>*</del>
10	<del>Pang Shing Yau</del>	<del>彭成有</del>	<del>HRJD0163300R</del>	<del>14/5/2018</del>	<del>宏宗(保成)</del>	<del>工人</del>	<del>*</del>	<del>*</del>

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### Record of Attendance of Training

Training Session : Site Safety and Environmental Induction / Safety Toolbox talk / Environmental Toolbox talk / Safety Work Cycle / Others: (Day )

Date: 07 / 09 / 2016  
Time ( Safety ): /  
Time ( Environmental ): 11:15-11:30

Safety Toolbox Talk Topic: Environmental Toolbox Talk Topic  
Training Tutor ( Safety ): Eric Loh / Leung Yu Cheng / Lee Wing Hung  
Training Tutor Signature ( Safety ):

Training Tutor ( Environmental ): Grant Hui / Ruby Law  
Training Tutor Signature ( Environmental ):

No.	Name of Trainee (英文名)	Chinese Name (中文名)	Green Card No. (平安卡)	Expire day (到期日)	Company (公司)	Trades (工种)	Safety Training 安全訓練 (簽名)	Environmental Training 環保訓練 (簽名)
1	Shi Xiangin	施香琴	HRYL0150324	29/09/2018	保成	乙工		X
2	Chow chi lun	周子倫	GC-378220	1/4/2018	OSCAR	Engineering manager		X W.H. Ho.
3								
4								
5								
6								
7								
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9								
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