#### QUARTERLY EM&A REPORT

OSCAR Bioenergy Joint Venture

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

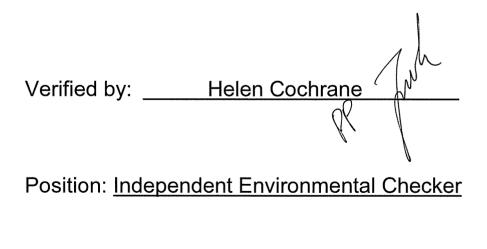
1 December 2016 - 28 February 2017

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## Organic Waste Treatment Facilities, Phase I

# 7<sup>th</sup> Quarterly EM&A Summary Report (1 December 2016 – 28 February 2017)

(March 2017)



Date:	22 March 2017

#### QUARTERLY EM&A REPORT

OSCAR Bioenergy Joint Venture

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

1 December 2016 – 28 February 2017 Reference 0279222

For and on behalf of ERM-Hong Kong, Limited
Approved by: Frank Wan
Signed: Marchart
Position: Partner
Certified by: (Environmental Team Leader - Mandy To) Certified by: (Registered Landscape Architect No. R-150 - Albert Chung)
Date: 21 March 2017

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#### 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 seventh quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 December 2016 to 28 February 2017 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

13 times 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.

#### 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 seventh 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 December 2016 to 28 February 2017**.

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

#### **Construction Activities Undertaken**

- Building 1 ABWF and finishing works, E&M installation.
- Building 2 ABWF and finishing work, steel roof and covered walkway cladding, installation of GRP ductwork at roof, E&M installation.
- Building 3 ABWF, Electrical and BS installation inside rooms at G/F & LR/F.
- Weighbridge and control room structure.
- Collection chamber 1 excavation and construction.
- Link bridge Bondex steel deck.
- NTH mitigation works on slope.
- Boundary fence wall construction.
- AD Tank –Cladding to SBT. Water drain from AD1 & 2. ABWF and pump installation to pump rooms. Pipe rack construction.
- Pipe rack and cable rack installation.
- Ammonia Stripping Plant -structural steel and mechanical erection work.
- Mechanical installation (pre-treatment equipment, CAPCS scrubber) at Building 1.
- Mechanical installation (composting equipment) inside pipe gallery at Building 2.
- Electrical installation (cable trays installation, B2 MCC panels installation,, B3 HV and LV installation)
- Sitewide Underground drainage and drawpit work.
- Portion 2 temp. traffic arrangement, pavement and roadworks.
- Portion 4 Material handling and storage, steel bending & cutting.

#### 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 2.2Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	FEP-	Throughout the	Permit granted on 21
	01/395/2010/C	Contract	December 2015
Notification of	Ref No. 386715	Throughout the	-
Construction Works		Contract	
under the Air Pollution			
Control (Construction			
Dust) Regulation			
Effluent Discharge	WT00021482-	21 May 2015 - 31	Approved on 21 May
License	2015	May 2020	2015
Construction Noise	GW-RW0483-16	12 September	Approved on 22
Permit-P1&P2		2016 – 11 December 2016	August 2016
Construction Noise	GW-RW0678-16	12 December 2016-11	Approved on 2 December
Permit-P1&P2		June 2017	2016
Construction Noise	GW-RW0628-16	1 December 2016 –	Approved on 8 November
Permit – P3		31May 2017?	2016
Chemical Waste Producer	WPN 5213-961-	Throughout the	Approved on 29 April
Registration	O2231-01	Contract	2015
Waste Disposal Billing	Account	Throughout the	-
Account	number: 702310	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 in *Table 5.1*.

Month / Year	Quantity									
	Total Inert C&D	Non-inert C&D Materials (b)								
	Materials Generated <sup>(a)</sup>	C&D Materials Recycled <sup>(c)</sup>	C&D Waste Disposed of at Landfill <sup>(d)</sup>	Chemical Waste						
December 2016	2,477.95 tonnes	3,053.00 kg	136.80 tonnes	0.00 L						
January 2017	2,150.92 tonnes	55,921.00 kg	127.43 tonnes	0.00 L						
February 2017	553.80 tonnes	36,640.00 kg	83.46 tonnes	460 L						

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

#### Notes:

(a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated spoil. In total, 5,182.67 tonnes of inert C&D material were generated from the Project, of which 1,432.60 tonnes were reused in this Contract and the remaining 3,750.07 tonnes were disposed as public fill to Fill Banks at Tuen Mun Area 38. 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) 49,140.00 kg of metals, 39,964.00 kg of papers/ cardboard packing and 6,510.00 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 ENVIRONMENTAL INSPECTIONS

#### 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.

#### December 2016

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 5, 12, 21 and 28 December 2016. The IEC was also present at the joint inspection on 21 December 2016.

#### January 2017

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 4, 9, 18 and 23 January 2017. The IEC was also present at the joint inspection on 18 January 2017.

#### February 2017

Joint site inspections were conducted by the representatives of the Contractor, SOR and the ET on 1, 6, 15, 20 and 27 February 2017. The IEC was also present at the joint inspection on 15 February 2017.

#### 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.

#### December 2016

Bi-weekly site inspections were conducted on 5 and 19 December 2016.

#### January 2017

Bi-weekly site inspections were conducted on 3, 17 and 26 January 2017.

February 2017

Bi-weekly site inspections were conducted on 6 and 20 February 2017.

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 remedial works and follow-up actions had been completed during this reporting period by the contractor.

#### 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 December 2016 to 28 February 2017 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.

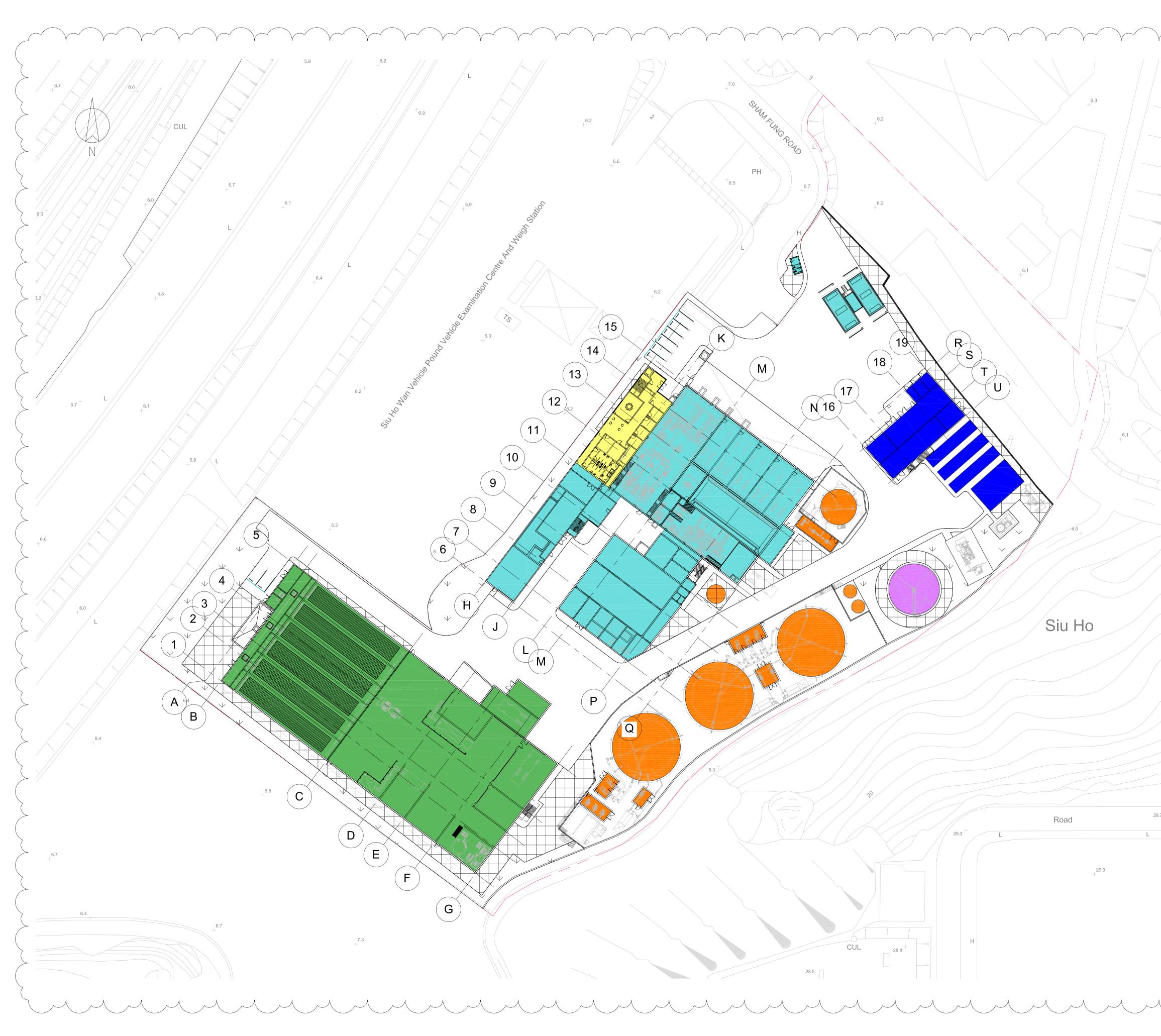
Bi-weekly landscape and visual monitoring was conducted in this quarterly period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor. Follow-up actions would be implemented by the Contractor to improve protection measures on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

### Project Layout

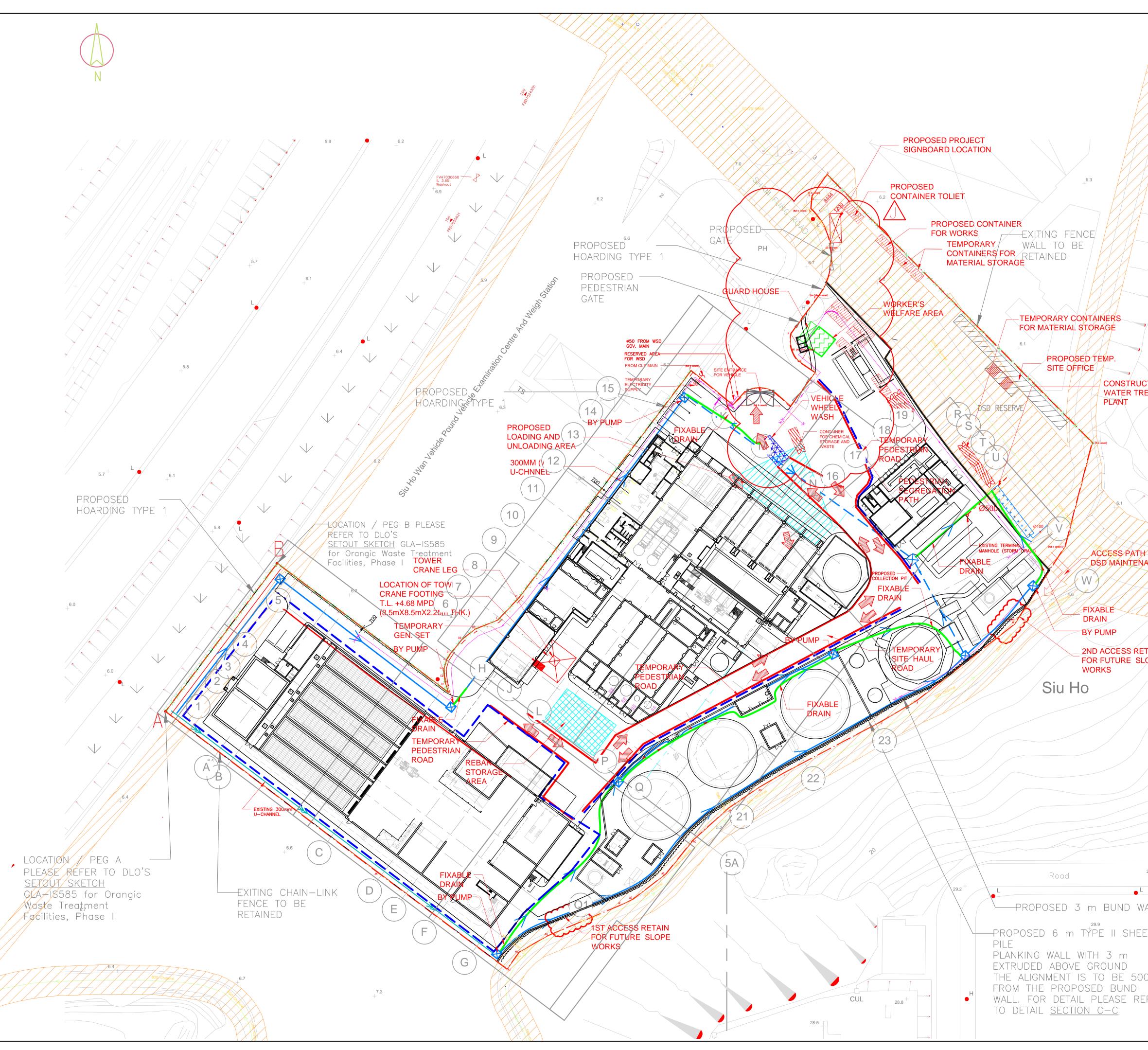


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Annex B

Works Location



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	KEY PLAN
	State Contraction of the second secon
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	SITE BOUNDARY
	T T T T T PROPOSED HOARDING TYPE 1
	+++++++ EXISTING CHAIN-LINK FENCE
	PROPOSED 6 m TYPE II SHEET PILE PLANKING WALL WITH 3 m EXTRUDED ABOVE GROUND
	$\times$ $\times$ $\times$ $\times$ EXISTING FENCE WALL
	DISCHARGE DRAINAGE
	300mm(W) PROPOSED TEMP. CHANNEL 300mm(W) EXISTING U–CHANNEL
	50/75mm FLEXIBLE DRAIN
	PROPOSED TEMP. CATCH PIT
	REBAR STORAGE AREA AND BENDING YARD
UCTION WASTE	GENERAL MATERIAL STORAGE AREA
REATMENT	VEHICLE WHEEL WASH
	WATER TREATMENT PLANT
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	AECOM ASIA CO. LTD.
	CONTRACTOR
	SUEZ OATAL CROSROCA
RETAIN	OSCAR Bioenergy Joint Venture
SLOPE	LEAD DESIGNER
	ARUP
	Ove Arup & Partners Hong Kong Limited
	ENVIRONMENTAL TEAM
	ERM HONG KONG LIMITED
	INDEPENDENT CONSULTANTS
	INDEPENDENT CONSULTANTS
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	Meinhardt Infrastructure and Environment Limited 邁進基建環保工程顧問有限公司 PROJECT ORGANIC WASTE TREATMENT FACILITIES
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Annex C

Construction Programme of the Project

ronmental Prote	ection Department			Contract N	o. EP/SP/	61/10			3-Month Rolling Programme Progress U
ETROAN			Orga	anic Waste Tre	atment Fa	acilitie	s Phas	e 1	
ctivity ID	Activity Name	BL Project BL Project S Duration	tart BL Project Finish	Remaining Start Duration	Finish	Activity % Complete	Total Float	Variance - BL Project	2017 Feb Mar Apr
Contract No	o. EP/SP/61/10 - The Design & Construction	535d 12-Feb-15	02-Dec-16	148d 01-Mar-15 A	18-Aug-17		110d	-208d	
MAJOR MILEST		101d 20-Oct-15	23-Feb-16	0d 16-Feb-17 A	15-May-17		-94d	-360d	
	for Design of the Works	126d 20-Oct-15	23-Feb-16	0d 15-May-17	15-May-17			-447d	
MC2.1 The Employ	yer's consent granted on Detailed Design Submission	0d 20-Oct-15 0d 20-Oct-15	20-Oct-15 20-Oct-15	0d 15-May-17 0d 15-May-17	15-May-17 15-May-17			-573d -573d	
MC210600	MC2.1.6 - Employer's consent granted in respect of Detail Design of control & instrumentation works		20-Oct-15	0d	15-May-17	0%		-573d	
MC2.2 Completion	of the Design of the Works	0d 23-Feb-16	23-Feb-16	0d 15-May-17	15-May-17			-447d	
MC220100	MC2.2 - Completion of the Design of the Works	0d 23-Feb-16 0d	23-Feb-16 23-Feb-16	0d 15-May-17 0d	15-May-17 15-May-17	0%	-120d -120d		
		0d 26-Jan-16	26-Jan-16	0d 16-Feb-17A	16-Feb-17 A			-261d	
	r for Construction of the Works Materials and Equipment to the Site	0d 26-Jan-16	26-Jan-16	0d 16-Feb-17A	16-Feb-17 A			-261d	
MC320100	MC3.2.1 - Completion of Delivery of Pre-treatment System	0d 26-Jan-16 0d	26-Jan-16 26-Jan-16	0d 16-Feb-17 A	16-Feb-17 A 16-Feb-17 A	100%		-261d -261d	
WIC320100	WG3.2.1 - Completion of Delivery of Fre-treatment System	00	20-Jan-10	0d	IO-PED-I/A	100 %		-2010	MC3.2.1 - Completion of Delivery of Pre-treatment System
MC320500	MC3.2.5 - Completion of Delivery of Centralized Air Pollution Control System	Od	26-Jan-16	Od	16-Feb-17 A	100%		-261d	MC3.2.5 - Completion of Delivery of Centralized Air Pollution Control System
	AND GENERAL REQUIREMENT WORKS	343d 09-Oct-15	02-Dec-16	136d 17-Dec-15 A	04-Aug-17		121d	-196d	
	ation & Maintenance Staff	153d 26-May-16	25-Nov-16	133d 28-Sep-16 A	04-Aug-17			-202d	
		153d 26-May-16	25-Nov-16	133d 28-Sep-16 A	04-Aug-17		121d	-202d	
TN100150	IC checks & certifies training syllabus & materials	153d 26-May-16 14d 26-May-16	25-Nov-16 08-Jun-16	133d 28-Sep-16 A 0d 28-Sep-16 A	04-Aug-17 26-Jan-17 A	100%		-202d -232d	IC checks & certifies training syllabus & materials
TN100200	Employer agrees to training syllabus and materials	0d	22-Jun-16	0d 20 00p 1011	21-Feb-17	0%			
									Employer agrees to training syllabus and materials
TN100250	O&M Training of Contractor's Operation staff	60d 29-Jul-16	24-Oct-16	60d 12-May-17	04-Aug-17	0%		-193d	
TN100300	O&M Training of Employer's staff	64d 26-Aug-16	25-Nov-16	64d 22-Mar-17	27-Jun-17	0%	-42d	-141d	
	esting / Operation Plan	343d 09-Oct-15	02-Dec-16	72d 17-Dec-15 A	19-May-17		-84d -94d	-132d	
Factory Acceptance	ce lest plan	42d 09-Oct-15 42d 09-Oct-15	19-Nov-15 19-Nov-15	0d 17-Dec-15 A 0d 17-Dec-15 A	27-Feb-17 27-Feb-17		-94d -94d		
TP100110	IC checks & comments on Factory Acceptance Test Plan	14d 09-Oct-15	22-Oct-15	0d 17-Dec-15 A	24-Jan-17 A	100%		-460d	IC checks & comments on Factory Acceptance Test Plan
TP100120	Revise & resubmit Factory Acceptance Test Plan	7d 23-Oct-15	29-Oct-15	0d 14-Jan-16 A	01-Feb-17 A	100%		-461d	Revise & resubmit Factory Acceptance Test Plan
TP100130	IC checks & certifies Factory Acceptance Test Plan	7d 30-Oct-15	05-Nov-15	0d 15-Jan-16 A	13-Feb-17 A	100%		-466d	IC checks & certifies Factory Acceptance Test Plan
TP100140	Employer Consents to Factory Acceptance Test Plan	0d	19-Nov-15	0d	27-Feb-17	0%	-94d	-466d	Employer Consents to Factory Acceptance Test Plan
Site Acceptance Te		57d 31-Dec-15	10-Mar-16	34d 05-Dec-16 A	29-Mar-17		-122d	-312d	
_ ·		57d 31-Dec-15	10-Mar-16	34d 05-Dec-16 A	29-Mar-17		-122d	-312d	
TP100200	Submission of Site Acceptance Test Plan	20d 31-Dec-15	28-Jan-16	0d 05-Dec-16 A	27-Jan-17 A	100%		-247d	Submission of Site Acceptance Test Plan
TP100210	IC checks & comments on Site Acceptance Test Plan	14d 29-Jan-16	11-Feb-16	12d 01-Feb-17 A	01-Mar-17	14.29%	-149d	-384d	IC checks & comments on Site Acceptance Test Plan
TP100220	Revise & resubmit Site Acceptance Test Plan	7d 12-Feb-16	18-Feb-16	7d 02-Mar-17	08-Mar-17	0%	-149d	-384d	Revise & resubmit Site Acceptance Test Plan
TP100230	IC checks & certifies Site Acceptance Test Plan	7d 19-Feb-16	25-Feb-16	7d 09-Mar-17	15-Mar-17	0%	-149d	-384d	IC checks & certifies Site Acceptance Test Plan
TP100240	Employer Consents to Site Acceptance Test Plan	0d	10-Mar-16	0d	29-Mar-17	0%	-149d	-384d	Employer Consents to Site Acceptan
All System Commis	ssioning Plan	41d 14-Jun-16	01-Aug-16	39d 12-Dec-16 A	05-Apr-17		-119d		
OP100150	Submission of All System Commissioning Plan	41d 14-Jun-16 5d 14-Jun-16	01-Aug-16 20-Jun-16	39d 12-Dec-16 A 0d 12-Dec-16 A	05-Apr-17 10-Feb-17 A	100%	-119d	-202d -161d	Submission of All System Commissioning Plan
OP100160	IC checks & comments on All System Commissioning Plan	14d 21-Jun-16	04-Jul-16	19d 11-Feb-17 A	08-Mar-17	15%	-147d	-247d	IC checks & comments on All System Commissioning Plan
OP100170	Revise & resubmit All System Commissioning Plan	7d 05-Jul-16	11-Jul-16	7d 09-Mar-17	15-Mar-17	0%		-247d	Revise & resubmit All System Commissioning Plan
OP100180	IC checks & certifies All System Commissioning Plan	7d 12-Jul-16	18-Jul-16	7d 16-Mar-17	22-Mar-17	0%		-247d	IC checks & cetifies All System Commissioning P
OP100190	Employer Consents to All System Commissioning Plan	0d	01-Aug-16	0d	05-Apr-17	0%		-247d	
						076			Employer Consents to A
Process Start Up a	& Commissioning Plan	40d 01-Aug-16 40d 01-Aug-16	16-Sep-16 16-Sep-16	65d 28-Dec-16 A 65d 28-Dec-16 A	12-May-17 12-May-17			-190d -190d	
OP100200	Submission of Process Start up & Commissioning Plan	5d 01-Aug-16	05-Aug-16	30d 28-Dec-16 A	31-Mar-17	55%	-65d	-163d	Submission of Process Start up a
OP100210	IC checks & comments on Process Start up & Commissioning Plan	14d 06-Aug-16	19-Aug-16	14d 01-Apr-17	14-Apr-17	0%	-98d	-238d	IC che
OP100220	Revise & resubmit Process Start up & Commissioning Plan	7d 20-Aug-16	26-Aug-16	7d 15-Apr-17	21-Apr-17	0%	-98d	-238d	
OP100230	IC checks & certifies Process Start up & Commissioning Plan	7d 27-Aug-16	02-Sep-16	7d 22-Apr-17	28-Apr-17	0%	-98d	-238d	
OP100240	Employer Consents to Process Start up & Commissioning Plan	Od	16-Sep-16	Od	12-May-17	0%	-98d	-238d	
Plant Commissioni	ing Plan	23d 07-Nov-16	02-Dec-16	71d 16-Jan-17 A	19-May-17		-99d		
OP100350	Submission of Plant Commissioning Plan	23d 07-Nov-16 5d 07-Nov-16	02-Dec-16 11-Nov-16	71d 16-Jan-17 A 47d 16-Jan-17 A	19-May-17 28-Apr-17	18%	-99d -82d		
OP100360	IC checks & comments on Plant Commissioning Plan	14d 12-Nov-16	25-Nov-16	14d 29-Apr-17	12-May-17	0%			
OP100370	Revise & resubmit Plant Commissioning Plan	7d 26-Nov-16	02-Dec-16	7d 13-May-17	19-May-17	0%			
						078			
COMMENCEM	ENT, SITE POSSESSION AND ACCESS	0d 07-Oct-16 0d 07-Oct-16	07-Oct-16	73d 21-Mar-16 A 73d 21-Mar-16 A	20-May-17 20-May-17		185d	-180d	
		0d 07-Oct-16	07-Oct-16	73d 21-Mar-16 A	20-May-17 20-May-17			-180d	
		0d 07-Oct-16	07-Oct-16	73d 21-Mar-16 A	20-May-17		185d	-180d	
			<b>A</b> -						
ect:v1.4_up_17Fe		•		ne Milestone	Critical		<b>&gt;</b> •	Actua	Al Milestone Baseline: Contract Programme for The Design and Construction Page 1 of 17
WS-OSC-00-0-T	FM-0080-A, Date:1-Mar-2017 Prim	ary Baseline 🔶	Milesto	one	Actual	Work			Works v1.4

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n			
IC checks & comments on All System Con	missioning Plan		
Revise & resubmit All System	n Commissioning Plan		
IC checks & ce	rtifies All System Commissioning	g Plan	
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	Submission of Process Start u		
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Design and Construction	Page 1 of 17		
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)	Activity Name	BL Project BL Project St Duration	art BL Project Finish	Remaining Start Duration	Finish	Activity % Complete	Total Float Va	ariance - BL Project	Feb Ma
CD100330	End Date of Access to Portion 2	0d	07-Oct-16	0d	26-Jan-17 A	100%		-91d	End Date of Access to Partian 2
D100370	Possession of Portion 4 - Ex-Ka Wah Batching Plant Area)	0d		92d 21-Mar-16 A	20-May-17	74.79%	225d		
	GN SUBMISSION (DDS) - GENERAL, CIVIL, ABWF AND LAND:	159d 28-May-15	04-Dec-15	85d 28-Mar-15 A	05-Jun-17			-440d	
e <mark>rall Design</mark> neral Building Pl	lans Design	44d 18-Jun-15 34d 18-Jun-15	11-Aug-15 30-Jul-15	56d 28-Mar-15 A 32d 17-Mar-17	28-Apr-17 28-Apr-17		-41d -41d	-507d -517d	
- D101040	- Submit General Building Plans to IC, ER & Employer	34d 18-Jun-15 0d	30-Jul-15 18-Jun-15	32d 17-Mar-17 0d	28-Apr-17 17-Mar-17*	0%	-41d -90d	-517d -434d	
D101060	IC checks & comments on General Building Plans	14d 19-Jun-15	02-Jul-15	14d 18-Mar-17	31-Mar-17	0%		-638d	
D101080	Revise & resubmit General Building Plans to IC, ER & Employer	7d 03-Jul-15	09-Jul-15	7d 01-Apr-17	07-Apr-17	0%	-133d	-638d	
D101100	IC checks & certifies General Building Plans	7d 10-Jul-15	16-Jul-15	7d 08-Apr-17	14-Apr-17	0%	-133d	-638d	
D101120	Employer consents to General Building Plans	0d	30-Jul-15	Od	28-Apr-17	0%	-52d	-638d	
e Safety Strateg	y Report	28d 15-Jul-15	11-Aug-15	70d 28-Mar-15 A	28-Apr-17		-52d	-626d	
D102220	Revise & resubmit Detailed Design of Fire Safety Strategy Report to IC, ER &	28d 15-Jul-15 7d 15-Jul-15	11-Aug-15 21-Jul-15	70d 28-Mar-15 A 35d 28-Mar-15 A	28-Apr-17 24-Mar-17	95%	-52d -109d	-626d -612d	
D102240	Employer IC checks & certifies Detailed Design of Fire Safety Strategy Report	7d 22-Jul-15	28-Jul-15	7d 25-Mar-17	31-Mar-17	0%	-109d	-612d	
D102260	Employer consents to Detailed Design of Fire Safety Strategy Report	Od	11-Aug-15	0d	28-Apr-17	0%		-626d	
ste Receivino	g, Pre-treatment & Administration Building #1	66d 10-Aug-15	28-Oct-15	12d 03-Jan-17 A	03-Mar-17		-99d	-399d	
elwork Design		66d 10-Aug-15	28-Oct-15	12d 03-Jan-17 A	03-Mar-17		-99d	-399d	
ilding #1 Roof S D111210	Prepare & submit Method of Construction for Bldg #1 Roof - Structural	41d 10-Aug-15 25d 10-Aug-15	25-Sep-15 11-Sep-15	12d 03-Jan-17 A 0d 03-Jan-17 A	03-Mar-17 08-Feb-17 A	100%	-113d	-424d -347d	Prepare & submit Method of Construction for Bldg #1 Roof - Structu
D111215	Steelwork IC checks & certifies Method of Construction of Bldg #1 Roof - Structural Declored	14d 12-Sep-15	25-Sep-15	14d 09-Feb-17 A	03-Mar-17	35%	-138d	-525d	IC checks & certifies M
APC Stack	Steelwork	36d 14-Sep-15	28-Oct-15	12d 03-Jan-17 A	03-Mar-17		-99d	-399d	
D311310	Prepare & submit Method of Construction for CAPC Stack - Steel Support	21d 14-Sep-15	14-Oct-15	0d 03-Jan-17 A	08-Feb-17 A	100%		-326d	Prepare & submit Method of Construction for CAPC Stack - Steel S
D311315	IC checks & certifies Method of Construction of CAPC Stack - Steel Support	14d 15-Oct-15	28-Oct-15	14d 09-Feb-17 A	03-Mar-17	35%	-122d	-492d	IC checks & certifies M
, ,	gs & Facilities #3	0d 0d		25d 14-Dec-16A 25d 14-Dec-16A	14-Mar-17 14-Mar-17		292d -135d		
structure Desig eighbridge		0d		25d 14-Dec-16 A	14-Mar-17		-135d		
D311402	IC checks & certifies Method of Construction for Substructure of Weighbridge	0d		25d 14-Dec-16 A	14-Mar-17	78%	-135d		
erstructure De: eighbridge	sign	0d 0d		25d 14-Dec-16 A 25d 14-Dec-16 A	14-Mar-17 14-Mar-17		292d 292d		
D311710	IC checks & certifies Method of Construction of Superstructure Design of Weighbridge	0d		25d 14-Dec-16 A	14-Mar-17	72%	292d		IC
ate House DD311910	IC checks & certifies Method of Construction of Superstructure Design of Gate	0d 0d		25d 14-Dec-16 A 25d 14-Dec-16 A	14-Mar-17 14-Mar-17	72%	-159d -159d		
	House		04-Dec-15		19-May-17	12/0	-105d	-427d	
	ngineering Works	159d 28-May-15 35d 28-May-15	09-Jul-15	72d         07-Jan-17 A           36d         01-Mar-17	12-Apr-17		-109d	-524d	
D411130	Prepare & submit Method of Construction for External Works (Section 3 & 4)	35d 28-May-15 21d 28-May-15	09-Jul-15 25-Jun-15	36d 01-Mar-17 21d 01-Mar-17*	12-Apr-17 29-Mar-17	0%	-129d -108d	-524d -437d	
D411135	IC checks & certifies Method of Construction of External Works (Section 3 & 4)	14d 26-Jun-15	09-Jul-15	14d 30-Mar-17	12-Apr-17	0%	-159d	-643d	
tion 5- Road, P	Paving, Road Marking	0d		41d 27-Mar-17	19-May-17		-105d		
D411480	Prepare & submit Method of Construction for External Works (Section 5)	0d 0d		41d 27-Mar-17 25d 27-Mar-17*	19-May-17 05-May-17	0%	-105d -85d		
D411500	IC checks & certifies Method of Construction of External Works (Section 5)	0d 0d		14d 06-May-17	19-May-17	0%	-133d		
			04 D == 45	· · ·		076		440.1	
	hting (Area 3 - Electrical)	66d 16-Sep-15 66d 16-Sep-15	04-Dec-15 04-Dec-15	64d 07-Jan-17 A 64d 07-Jan-17 A	10-May-17 10-May-17		-123d	-419d -419d	
D411250	Prepare & submit Method of Construction for External Works (Section 6)	25d 16-Sep-15	23-Oct-15	25d 20-Mar-17*	26-Apr-17	0%		-372d	
D411255	IC checks & certifies Method of Construction of External Works (Section 6)	14d 24-Oct-15	06-Nov-15	14d 27-Apr-17	10-May-17	0%		-551d	
D411300	Revise & resubmit Detailed Design of External Works (Section 6) to IC, Employer & ER	7d 07-Nov-15	13-Nov-15	24d 07-Jan-17 A	13-Mar-17	55%	-172d	-486d	Rev
D411320	IC checks & certifies Detailed Civil Design of External Works (Section 6)	7d 14-Nov-15	20-Nov-15	7d 14-Mar-17	20-Mar-17	0%	-172d	-486d	
D411340	Employer consents to Detailed Civil Design of External Works (Section 6)	0d	04-Dec-15	0d	03-Apr-17	0%	-172d	-486d	
	uilding Works & Finishes (ABWF)	14d 01-Sep-15	14-Sep-15	0d 14-Dec-16 A	18-Jan-17 A			-492d	
	e Receiving, Pre-treatment & Admin. Building)	14d 01-Sep-15 14d 01-Sep-15	14-Sep-15 14-Sep-15	0d 14-Dec-16 A 0d 14-Dec-16 A	18-Jan-17 A 18-Jan-17 A			-492d -492d	
D120115	IC checks & certifies Method of Construction of Bldg.#1 ABWF	14d 01-Sep-15	14-Sep-15	0d 14-Dec-16 A	18-Jan-17 A	100%			checks & certifies Method of Construction of Bldg.#1
rior Fitting-ou	ut Works	42d 15-Sep-15 42d 15-Sep-15	05-Nov-15 05-Nov-15	41d 27-Mar-17 41d 27-Mar-17	19-May-17 19-May-17			-452d -452d	
D120240	Propara & submit Mathad of Construction for Interior Edition and	42d 15-Sep-15	05-Nov-15	41d 27-Mar-17	19-May-17	00/	-93d	-452d	
D120210	Prepare & submit Method of Construction for Interior Fitting-out IC checks & certifies Method of Construction of Interior Fitting-out	25d 15-Sep-15 14d 23-Oct-15	22-Oct-15 05-Nov-15	25d 27-Mar-17* 14d 06-May-17	05-May-17 19-May-17	0%		-378d -561d	
	ape Works and Building #2 Green Roof	14d 23-Oct-15 50d 06-Aug-15	16-Oct-15	30d 20-Apr-17	19-May-17 05-Jun-17	U%		-561d	
ana Lanusca	apo monto and Building #2 GIEER NUC	50d 06-Aug-15	16-Oct-15	30d 20-Apr-17	05-Jun-17		-81d	-401d	
		50d 06-Aug-15	16-Oct-15	30d 20-Apr-17	05-Jun-17		-81d	-401d	
4_up_17Fe	eb17 Activity	♦	🔷 Baselir	ne Milestone	Critica	I 🔶	<b></b>	Actual M	ilestone Baseline: Contract Programme for The Design and

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Building	Plans to IC, ER & Employer		
Salialing	IC checks & comments on Ge	neral Building Plans	
	Revise & resubm	nit General Building Plans	to IC, ER & Employer
		checks & certifies Genera	l Building Plans
		◆ Er	nployer consents to General I
vise & re	Submit Detailed Design of Fire S		
	is checks a certiles Detailed		nployer consents to Detailed [
on of Bld	g #1 Roof - Structural Steelwork		
on of CA	PC Stack - Steel Support		
	of Construction for Substructure	of Weighbridge	
Method of	of Construction of Superstructure	e Design of Weighbridge	
Method of	of Construction of Superstructure	e Design of Gate House	
P	repare & submit Method of Cons	truction for External Work	s (Section 3 & 4)
	IC chec	cks & certifies Method of (	Construction of External Work
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		Prepa	re & submit Method of Constru
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o cerun	<ul> <li>Employer consents to Design of External</li> </ul>		rnal Works (Section 6)
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		Duration	Finish	Duration	1 111311	Complete		- BL Proiect	Feb	Mar
DD410210	Prepare & submit Method of Construction for Landscape and Building #1 & #2 Green Roof	50d 06-Aug-15	16-Oct-15	30d 20-Apr-17*	05-Jun-17	0%	-81d	-401d		
	GN SUBMISSION (DDS) - ELECTRICAL AND MECHANICAL	46d 22-Aug-15	16-Oct-15	68d 13-May-15 A	15-May-17		190d	-464d		
<mark>ctrical Syster</mark> ph Voltage (HV)	m and Accessories - Switchgear, LCP, Cable, Earthing, etc.	56d 22-Aug-15 0d	16-Oct-15	38d 13-May-15 A 0d 12-Oct-16 A	27-Mar-17 01-Mar-17		279d -106d	-528d		
		0d		0d 12-Oct-16 A	01-Mar-17	400%	-106d			ks & certifies HV Electrical System
DE201200	IC checks & certifies HV Electrical System	Od		0d 12-Oct-16 A	15-Feb-17 A					
DE201250	Employer consents to HV Electrical System	Od		0d	01-Mar-17	0%	-106d			Employer consents to HV Electrical System
w Voltage (LV) a	and Emergency Generator	56d 22-Aug-15 56d 22-Aug-15	16-Oct-15 16-Oct-15	38d 13-May-15 A 38d 13-May-15 A	27-Mar-17 27-Mar-17		-107d -107d	-528d -528d		
DE200500	IC checks & comments on Detailed Design of Electrical System	14d 22-Aug-15	04-Sep-15	10d 13-May-15 A	27-Feb-17	95%	-107d	-542d		IC checks & comments on Detailed Design of Electrical System
DE200550	Revise & resubmit Detailed Design of Electrical System to IC, Employer & ER	7d 05-Sep-15	11-Sep-15	17d 10-Jul-15 A	06-Mar-17	92%	-107d	-542d		Revise & resubmit Detailed Design of Electrical Syst
DE200600	IC checks & certifies Electrical System	7d 12-Sep-15	18-Sep-15	24d 15-Jul-15 A	13-Mar-17	88%	-107d	-542d		IC checks & certifies Electrical System
DE200650	Employer consents to Electrical System	Od	16-Oct-15	Od	27-Mar-17	0%	-107d	-528d		Employer co
tra Low Voltage	(ELV)	0d		38d 18-Nov-16 A	27-Mar-17		279d			
DS140550	IC checks & certifies ELV System	0d 0d		38d 18-Nov-16 A 24d 18-Nov-16 A	27-Mar-17 13-Mar-17	72%	279d 279d			IC checks & certifies ELV System
DS140600	Employer consents to ELV System	0d		Od	27-Mar-17	0%	279d			Employer co
	Control and Monitoring System (SCADA/PLC)	0d 0d		68d 01-Dec-15 A	15-May-17		-117d			
		0d		68d 01-Dec-15 A	15-May-17		-117d			
DE210690	IC checks & comments on Detailed Design of SCADA/PLC System (Batch 2)	0d 0d		68d 01-Dec-15 A 17d 15-Nov-16 A	15-May-17 06-Mar-17	88%	-117d -131d			IC checks & comments on Detailed Design of SCAL
DE210700	(2nd) Revise & resubmit Detailed Design of SCADA/PLC System to IC, Employer &	Od		29d 07-Mar-17	04-Apr-17	0%	-131d			
	ER (Batch 2) (3rd)									
DE210710	IC checks & certifies SCADA/PLC System (Batch 2) (3rd)	0d		7d 05-Apr-17	11-Apr-17	0%	-131d			
DE210720	Employer consents to SCADA/PLC System (Batch 2)	Od		Od	25-Apr-17	0%	-131d			Bropara & autorita Datailad Dataign of S
DE210730	Prepare & submit Detailed Design of SCADA/PLC to IC, ER & Employer (Batch 3) (1st)	0d		16d 01-Dec-15 A	13-Mar-17	96%	-102d			Prepare & submit Detailed Design of S
DE210740	IC checks & comments on Detailed Design of SCADA/PLC System (Batch 3) (1st)	0d		14d 14-Mar-17	27-Mar-17	0%	-151d			IC checks &
DE210750	Revise & resubmit Detailed Design of SCADA/PLC System to IC, Employer & ER (Batch 3) (2nd)	0d		7d 28-Mar-17	03-Apr-17	0%	-151d			
DE210760	IC checks & comments on Detailed Design of SCADA/PLC System (Batch 3)	0d		14d 04-Apr-17	17-Apr-17	0%	-151d			
DE210770	(2nd) Revise & resubmit Detailed Design of SCADA/PLC System to IC, Employer &	Od		7d 18-Apr-17	24-Apr-17	0%	-151d			
DE210780	ER (Batch 3) (3rd) IC checks & certifies SCADA/PLC System (Batch 3) (3rd)	0d		7d 25-Apr-17	01-May-17	0%	-151d			
DE210790	Employer consents to SCADA/PLC System (Batch 3)	Od		Od	15-May-17	0%	-151d			
		45d 09-Sep-15	04-Nov-15	55d 15-Jul-15 A	27-Apr-17	070	203d	-436d		
	GN SUBMISSION (DDS) - BUILDING SERVICES stallations (FSI)	33d 09-Sep-15	21-Oct-15	33d 15-Mar-17	27-Apr-17		-92d	-448d		
		33d 09-Sep-15	21-Oct-15	33d 15-Mar-17	27-Apr-17		-92d	-448d		
DS110250	Submit Fire Safety, Dangerous Goods & FSI Detailed Design to IC, ER &	33d 09-Sep-15 0d	21-Oct-15 09-Sep-15	33d 15-Mar-17 0d	27-Apr-17 15-Mar-17*	0%	-92d -79d	-448d -374d		Submit Fire Safety, Dangerous Go
DS110300	Employer IC checks & comments on Fire Safety, Dangerous Goods & FSI Detailed	14d 10-Sep-15	23-Sep-15	14d 17-Mar-17	30-Mar-17	0%	-116d	-554d		C ch
	Design									
DS110350	Revise & resubmit Fire Safety, Dangerous Goods & FSI Detailed Design to IC, Employer & ER	7d 24-Sep-15	30-Sep-15	7d 31-Mar-17	06-Apr-17		-116d	-554d		
DS110400	IC checks & certifies Fire Safety, Dangerous Goods & FSI Detailed Design	7d 01-Oct-15	07-Oct-15	7d 07-Apr-17	13-Apr-17	0%	-116d	-554d		
DS110450	Employer consents to Fire Safety, Dangerous Goods & FSI Detailed Design	0d	21-Oct-15	0d	27-Apr-17	0%	-116d	-554d		
	g, Pre-treatment & Administration Bldg #1	Od		48d 28-Jul-15 A	06-Apr-17		269d			
- Electrical		0d 0d		48d 28-Jul-15 A 48d 28-Jul-15 A	06-Apr-17 06-Apr-17		269d 269d			
DS120206	IC checks & certifies Bldg #1 BS Electrical System DDS (incl. Re-submissions)	0d		34d 28-Jul-15 A	23-Mar-17	91%	269d			IC checks & certifie
DS120208	Employer consents to Bldg #1 BS Electrical System DDS	0d		Od	06-Apr-17	0%	269d			
mposting & M	Aturation Building #2	Od		45d 15-Jul-15 A	03-Apr-17		272d			
- Electrical		b0		45d 15-Jul-15 A	03-Apr-17		272d			
DS130206	IC checks & certifies Bldg #2 BS Electrical System DDS (incl. Re-submissions)	0d 0d		45d 15-Jul-15 A 31d 15-Jul-15 A	03-Apr-17 20-Mar-17	91%	272d 272d			IC checks & certifies Bld
DS130208	Employer consents to Bldg #2 BS Electrical System DDS	0d		Od	03-Apr-17	0%	272d			•
	g & Facilities #3	0d 04-Nov-15	04-Nov-15	41d 24-Feb-17	13-Apr-17		212d	-427d		
- Fire Services		0d		41d 24-Feb-17	13-Apr-17		-140d			
DS140510	Prepare & make Bldg #3 Aux. Facilities BS Detailed Design - Street Fire	0d 0d		41d 24-Feb-17 5d 24-Feb-17	13-Apr-17 02-Mar-17	0%	-140d -116d			Prepare & make Bldg #3 Aux. Facilities BS Detailed Design
	Hydrant System to IC, ER & Employer									IC checks & comments on Bldg
DS140520	IC checks & comments on Bldg #3 & Aux. Facilities Street Fire Hydrant System DDS	0d		14d 03-Mar-17	16-Mar-17	0%	-171d			
DS140530	Revise & resubmit Bldg #3 & Aux. Facilities Street Fire Hydrant System DDS to IC, Employer & ER	0d		7d 17-Mar-17	23-Mar-17	0%	-171d			Revise & resubmit t
DS140540	IC checks & certifies Bldg #3 & Aux. Facilities Street Fire Hydrant System DDS	0d		7d 24-Mar-17	30-Mar-17	0%	-171d			C che
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ed Design of	SCADA/PLC System (Batch 2) (	(2nd)	
	Revise & resubmit Det	ailed Design of SCADA/P	LC System to IC, Employer & I
	IC checks	s & certifies SCADA/PLC	System (Batch 2) (3rd)
		Employe	er consents to SCADA/PLC Sy
etailed Desig	n of SCADA/PLC to IC, ER & Em	nployer (Batch 3) (1st)	
IC ch	ecks & comments on Detailed D	esign of SCADA/PLC Sys	tem (Batch 3) (1st)
	Revise & resubmit Detail	ed Design of SCADA/PLC	System to IC, Employer & EF
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ety, Dangerou	s Goods & FSI Detailed Design	to IC, ER & Employer	
	IC checks & comments on Fire	Safety, Dangerous Goods	& FSI Detailed Design
I	Revise & resubmit	Fire Safety, Dangerous C	Soods & FSI Detailed Design t
	IC ch	ecks & certifies Fire Safe	aty, Dangerous Goods & FSI D
		♦ Emp	loyer consents to Fire Safety,
C checks &	ertifies Bldg #1 BS Electrical Sy	stem DDS (incl. Re-subm	issions)
	<ul> <li>Employer consents</li> </ul>	to Bldg #1 BS Electrical	System DDS
cks & certifie	as Bldg #2 BS Electrical System	DDS (incl. Re-submissior	is)
	<ul> <li>Employer consents to Bl</li> </ul>		
S Detailed D	esign - Street Fire Hydrant Syste	m to IC. FR & Employer	
	Bldg #3 & Aux. Facilities Street I		
Revise & res	ubmit Bldg #3 & Aux. Facilities St	reet Fire Hydrant System	DDS to IC, Employer & ER
	C checks & certifies Bldg #3 & A	Aux. Facilities Street Fire	Hydrant System DDS
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nmental Protec HKSAR	ction Department			Contract N							3	B-Month Rolling	Program	me Progress Upd
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iy ID	Activity Name	BL Project BL Duration	Project Start BL Project Finish	Remaining Start Duration	Finish	Activity % Complete	Total Float	Variance - BL		Feb		2017 Mar		Apr
DS140560	Employer consents to Bldg #3 & Aux. Facilities Street	Fire Hydrant System DDS 0d		Od	13-Apr-17	0%	-171d	Project						Employer conservation
BS - MVAC		0d 04-		0d 15-Mar-17			291d							
DS140400	Employer consents to Bldg #3 & Aux. Facilities BS M	0d 04-1 /AC System 0d	Nov-15 04-Nov-15 04-Nov-15	0d 15-Mar-17 0d	15-Mar-17 15-Mar-17*	0%	291d 291d	-497d -497d		 		Employ	ver consents to Blda #	#3 & Aux. Facilities BS MVAC System
TATUTORY AND	UTILITIES DESIGN SUBMISSION	28d 19-3	Sep-15 16-Oct-15	115d 30-Nov-15 A	12-Jun-17		-53d	-605d					,	
MAIDIORY AND	OTILITIES DESIGN SUBVIISSION	28d 19-3		115d 30-Nov-15 A			-53d							
		28d 19-3	•	115d 30-Nov-15 A			-53d							
SU110360	CLP - Approval of Submission Package on Grid Arra	28d 19-3 ngement 28d 19-3		115d 30-Nov-15 A 115d 30-Nov-15 A		92%	-53d -53d							
SU110470	WSD - Approval for Process Water Supply	0d	·	13d 09-Jan-17 A	02-Mar-17	75%	-120d					WSD - Approval for Process W	ater Supply	
SU110480	WSD & FSD - Approval for Street Fire Hydrant Wate			13d 24-Jan-17 A		70%	-174d					WSD & FSD - Approval for Stre	et Fire Hydrant Water	r Supply
			Feb-15 25-May-16	117d 01-Mar-15 A			135d	-336d						
	MANUFACTURING, F.A.T., SHIPMENT AI Storage and Feeding System	133d 09-		54d 04-Dec-15 A			-58d							
General		133d 09-	Jul-15 18-Jan-16	54d 04-Dec-15 A	11-May-17		-58d	-322d						
PR200100	Weighbridge Platform	133d 09- 103d 09-		54d 04-Dec-15 A 19d 04-Dec-15 A		96%	-58d -89d					Wai	hbridge Platform	
PR200120	Weighbridge Computer System	61d 22-0		30d 04-Dec-15 A		96%	-34d					Wei	gribridge Flatform	Weighbridge Computer Custom
PR210120			18-Jail-16					-2960						Weighbridge Computer System
	High Jet Water Spray Gun System	Od		22d 20-Mar-17*	21-Apr-17	0%	-108d							
PR210130	Vehicle Wash Plant 5th Bay	Od		25d 31-Mar-17*	11-May-17	0%	-117d							
Pre-Treatment Sys General	stem	123d 21 123d 21		43d 16-Jul-16 A 43d 16-Jul-16 A	· · · ·		-106d -106d							
		123d 21-		43d 16-Jul-16 A	24-Apr-17		-106d			Maria				
PR110205	Metal Separator	b0		0d 16-Jul-16 A	01-Feb-17 A	100%				Metal Separator				
PR110260	Overhead Travelling Crane	123d 21-	Jul-15 14-Jan-16	0d 16-Jul-16 A	06-Feb-17 A	100%		-261d		Overhead Travellin	) Crane			
PR110270	Monorail	b0		18d 16-Jul-16 A	15-Mar-17	99%	-81d					Monor	ail	
PR110420	Belt Conveyor	Od		0d 16-Jul-16 A	01-Feb-17 A	100%				Belt Conveyor				
PR110440	Platform (Pre-treatment)	Od		28d 13-Mar-17*	24-Apr-17	0%	-115d							
Anaerobic Digestic	on (AD) Treatment System	64d 22-0	Oct-15 21-Jan-16	28d 11-Jul-16 A	29-Mar-17		-84d	-293d						
General		64d 22-		28d 11-Jul-16 A			-84d							
PR120190	Overflow Tank	64d 22- 0d	Oct-15 21-Jan-16	28d 11-Jul-16 A 0d 18-Nov-16 A		100%	-84d	-293d	Overflow Tank					
PR120200	Intermediate Digestate Tanks	64d 22-1	Oct-15 21-Jan-16	28d 18-Nov-16 A		68%	-84d	-293d						
PR120220	-		21-341-10				-040	-2350	Monorail	Suspension Buffer Pump Room			Ir	ntermediate Digestate Tanks
	Monorail (Suspension Buffer Pump Room)	0d		0d 11-Jul-16 A		100%			meneral					
Biogas Cleaning, S Biogas Cleaning and	Storage and Distribution System	77d 19-1 77d 19-1 77d 19-1		37d 16-Mar-16 A 37d 16-Mar-16 A	01-Apr-17 01-Apr-17		-128d -128d							
		77d 19-1	Nov-15 23-Feb-16	37d 16-Mar-16 A	01-Apr-17		-128d	-329d						
PR130140	Biogas Storage Tank Holder	64d 19-1	Nov-15 23-Feb-16	37d 16-Mar-16 A		96%	-128d	-329d						Biogas Storage Tank Holder
PR130150	Biogas Storage Tank Holder Steel Casing	Od		37d 16-Mar-16 A		96%	-128d							Biogas Storage Tank Holder Steel C
	ecovery and Power (CHP) Generation System	13d 15-1		60d 14-May-15 A	-		-140d							
Combined Heat Reco	overy and Power (CHP) Generation System	13d 15- 13d 15-		60d 14-May-15 A 60d 14-May-15 A			-140d -140d							
PR140100	Issue orders & receive shop drawings from CHP sup	opliers 16d 15-1	Mar-15 30-Mar-15	11d 14-May-15 A	28-Feb-17	97.2%	-174d	-701d		1		Issue orders & receive shop drawi	ngs from CHP supplie	rs
PR140170	CHP Stack (Insulation and Platform)	DO		43d 01-Mar-17	05-May-17	0%	-117d							
Digestate Dewater	ing System	315d 12-1		30d 20-May-15 A	31-Mar-17			-213d						
General		315d 12- 315d 12-		30d 20-May-15 A 30d 20-May-15 A			-38d -38d							
PR170110	Issue orders & receive shop drawings from Digestat	e Dewatering suppliers 18d 12-	Feb-15 11-Mar-15	0d 20-May-15 A	23-Jan-17 A	100%		-463d	Issue orders	& receive shop drawings from D	gestate Dewatering	suppliers		
PR170170	Centrate Tank	DO		0d 18-Oct-16 A	20-Jan-17 A	100%			Centrate Tank					
PR170171	Platform at Dewatering Area	b0		18d 23-Jan-17 A	15-Mar-17	38%	-117d			 			m at Dewatering Area	
PR170174	Polymer Storage Tank	0d		30d 30-Jun-16 A	31-Mar-17	88%	-118d							Polymer Storage Tank
PR170177	Break Tank	0d		0d 02-Sep-16 A		100%			Break Tank					
PR170180		143d 27-1	Dct-15 25-May-16	30d 30-Jun-16 A			204	-213d						
	Polymer Dosing System		23-May-10			88%	-38d	-2130						Polymer Dosing System Anti-Foaming and Anti-Scalant Station
PR170230	Anti-Foaming and Anti-Scalant Station	0d		30d 30-Jun-16 A		88%	-89d			Monorail (Dewateri	0)			
PR170250	Monorail (Dewatering)	Od		0d 11-Jul-16 A		100%				wonorali (Dewateri	9/			
	m (Composting Tunnel, Maturation Area and S			47d 20-May-16 A	28-Apr-17			-261d						
General		143d 09- 143d 09-		47d 20-May-16 A 47d 20-May-16 A			164d 164d							
PR170140	Mixing Unit	143d 09-		30d 20-May-16 A		90%	-96d							Mixing Unit
PR170200	Compost Bagging Machine	103d 09-5	Sep-15 05-Feb-16	47d 19-Sep-16 A	28-Apr-17	85%	164d	-301d						
PR170280	Tunnel Doors	103d 09-	Sep-15 05-Feb-16	0d 02-Nov-16 A	07-Feb-17 A	100%		-246d		Tunnel Doors				
											_	<u> </u>		<u> </u>
v1.4_up_17Feb				ine Milestone	Critical	<b></b>	•	Actus	al Milestone		ct Programme	e for The Design and Co	nstruction	Page 4 of 17
	A-0080-A, Date:1-Mar-2017	Primary Baseline	Milest		Actual \	Mark				Works v1.4				i I

nth Rolling Program	me Progress		<b>n 17-Feb-17</b> Ar bioenergy jv
2017	I .		I
Mar	Apr	ver consents to Bldg #3	May & Aux. Facilities Street Fire Hyd
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Employer consents to Bldg #	3 & Aux. Facilities BS MVAC Sys	iem	
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- Approval for Process Water Supply			
& FSD - Approval for Street Fire Hydrant Water	Supply		
Weighbridge Platform			
	Wainhhaidan Computer Cunter		
	Weighbridge Computer System		Course Curs Curston
		High Jet water	Spray Gun System
•	:		Vehicle
Monorail			
		Platform (	Pre-treatment)
In	termediate Digestate Tanks		
	Biogas Storage Tank Holder		
	Biogas Storage Tank Holder	Steel Casing	
ders & receive shop drawings from CHP supplier	's		
			CHP Stack (Insulati
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Platform at Dewatering Area			
	Polymer Storage Tank		
	Polymer Dosing System		
	Anti-Foaming and Anti-Scalant	Station	
	Mixing Unit		
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nmental Prote HKSAR	ction Department			Contract No				3-Month Rolling Programme Prog
IINGAN			Org	anic Waste Trea	atment F	acilities	Phase 1	
rity ID	Activity Name	BL Project BL Project St Duration	art BL Project Finish	Remaining Start Duration	Finish	Activity % 1 Complete	otal Float Variance	2017 Feb Mar
Wastewater Treat	tment System (WWTS)	266d 16-Mar-15	13-Apr-16	67d 08-Jul-15 A	31-May-17		-100d -279d	
General		266d 16-Mar-15 266d 16-Mar-15	13-Apr-16 13-Apr-16	67d 08-Jul-15 A 67d 08-Jul-15 A	31-May-17 31-May-17		-100d -279d -100d -279d	
PR150100	Issue orders & receive shop drawings from WWTS suppliers	17d 16-Mar-15	10-Apr-15	9d 08-Jul-15 A	02-Mar-17	98%	-42d -470d	Issue orders & receive shop drawings from WWTS suppliers
PR150120	Wastewater Treatment Plant (General)	103d 24-Sep-15	25-Feb-16	0d 11-Dec-15 A	19-Jan-17 A	100%	-224d 🔜 🗤	Vastewater Treatment Plant (General)
PR150130	Wastewater Treatment Plant (Chemical Dosing System)	Od		62d 27-Feb-17*	31-May-17	0%	-100d	
PR150140	Ammonia Stripping Plant	134d 24-Sep-15	13-Apr-16	7d 24-Dec-15 A	28-Feb-17	96%	-40d -219d	Ammonia Stripping Plant
PR150170	GRP Tank	0d		28d 17-Jun-16 A	29-Mar-17	82%	-61d	GRP Tank
PR150200	Air Blowers	Od		7d 16-Aug-16 A	28-Feb-17	92%	-120d	· Air Blowers
PR150240	ASP Stack (Insulation and Platform)	Od		43d 01-Mar-17*	05-May-17	0%	-85d	
PR150240	Diesel Tank (ASP)	0d		0d 23-Dec-16 A	17-Feb-17 A	100%	-030	Diesel Tank (ASP)
						100%		
Centralized Air Po	ollution Control (CAPC) System	18d 12-Feb-15 18d 12-Feb-15	11-Mar-15 11-Mar-15	47d 30-May-15 A 47d 30-May-15 A	28-Apr-17 28-Apr-17		-107d -527d -107d -527d	
General		18d 12-Feb-15	11-Mar-15	47d 30-May-15 A 47d 30-May-15 A	28-Apr-17 28-Apr-17		-107d -527d	
PR180100	Issue orders & receive shop drawings from CAPC suppliers	18d 12-Feb-15	11-Mar-15	6d 30-May-15 A	27-Feb-17	98%	-76d -486d	Issue orders & receive shop drawings from CAPC suppliers
PR180140	GRP Tanks	0d		28d 02-Sep-16 A	29-Mar-17	79%	-98d	GRP Tanks
PR180152	GRP Ductworks (Batch 2 - Building 2)	0d		5d 04-Jun-16 A	24-Feb-17	94%	-81d	GRP Ductworks (Batch 2 - Building 2)
PR180154	GRP Ductworks (Batch 3 - AD)	Od		18d 24-Jun-16 A	15-Mar-17	82%	-119d	GRP Ductworks (Batch 3 - AD)
PR180155	GRP Ductworks (Batch 4 - Building 1)	Od		42d 27-Feb-17*	28-Apr-17	0%	-107d	
PR180215	Inline Fans	Od		22d 30-Dec-16 A	21-Mar-17	48%	-106d	Inline Fans
Bulk Material		352d 09-Mar-15	18-May-16	117d 16-Sep-15 A	13-Jul-17		-58d -342d	
	Racks (including Pre-fabrication in Factory)	233d 09-Mar-15	17-Dec-15	46d 16-Sep-15 A	13-Apr-17		-10d -390d	
PR220050	Issue orders & receive shop drawings from Mechanical Equipment suppliers	233d 09-Mar-15 20d 09-Mar-15	17-Dec-15 08-Apr-15	46d 16-Sep-15 A 0d 16-Sep-15 A	13-Apr-17 17-Feb-17 A	100%	-10d -390d -463d	Issue orders & receive shop drawings from Mechanical Equipment suppliers
PR220055	Pipework (SS316) for Building 1 Waste Receiving & Pre-treatment	Od		11d 05-Aug-16 A	06-Mar-17	88%	-117d	Pipework (SS316) for Building 1 Waste Receiving & Pre-treatme
								Pipework (SS316) for Building 1 (Others)
PR220056	Pipework (SS316) for Building 1 (Others)	Od		11d 21-Sep-16 A	06-Mar-17	89%	-119d	
PR220057	Pipework (SS316) for Building 2	Od		8d 05-Aug-16 A	01-Mar-17	82%	-96d	Pipework (SS316) for Building 2
PR220058	Pipework (SS316) for AD Pipe Racks	0d		5d 05-Aug-16 A	24-Feb-17	92%	-105d	Pipework (SS316) for AD Pipe Racks
PR220059	Pipework (SS316) for AD (Others)	Od		7d 17-Oct-16 A	28-Feb-17	82%	-78d	Pipework (SS316) for AD (Others)
PR220060	Pipework (SS316) for Biogas Pipe Racks	0d		21d 22-Aug-16 A	20-Mar-17	78%	9d	Pipework (SS316) for Biogas Pipe Ra
PR220061	Pipework (SS316) for Biogas Area	0d		6d 03-Oct-16 A	27-Feb-17	88%	-86d	Pipework (SS316) for Biogas Area
PR220062	Pipework (SS316) for Hot Water Room	Od		6d 05-Aug-16 A	27-Feb-17	91%	-78d	Pipework (SS316) for Hot Water Room
PR220065	Pipework (DI)	Od		30d 19-Jan-16 A	31-Mar-17	92%	-94d	Pipework (DI)
PR220100	Pipework (uPVC)	105d 21-Jul-15	17-Dec-15	38d 19-Jan-16 A	13-Apr-17	95%	-113d -326d	
PR220200	Pipe Rack 1 Structure	Od		15d 14-Dec-16 A	07-Mar-17	75%	-133d	Pipe Rack 1 Structure
PR220280	Pipe Rack 3,4 and Pipe Crossing 1,2 Structure	Od		36d 14-Dec-16 A	31-Mar-17	55%	-114d	Pipe Rack 3,4 ar
PR220290	Pipe Rack 2 Structure	Od		36d 14-Dec-16 A	31-Mar-17	55%	Od	Pipe Rack 2 Stru
General		228d 17-Jun-15	18-May-16	98d 23-Nov-15 A	13-Jul-17		-49d -286d	
		228d 17-Jun-15	18-May-16	98d 23-Nov-15 A	13-Jul-17		-49d -286d	
PR220105	Roller Shutters (UK)	Od		25d 27-Oct-16 A	24-Mar-17	80%	-114d	Roller Shutters (UK)
PR220108	Lifting Appliance	0d		18d 11-Jul-16 A	15-Mar-17	92%	-85d	Lifting Appliance
PR220110	Issue orders & receive shop drawings from Platforms, Handrails & Ladders suppliers	20d 17-Jun-15	15-Jul-15	11d 23-Nov-15 A	06-Mar-17	98%	-47d -407d	Issue orders & receive shop drawings from Platforms, Handrails
PR220120	Platforms, Handrails and Ladders	90d 05-Nov-15	16-Mar-16	50d 07-Mar-17*	22-May-17	0%	-47d -290d	
PR220130	Issue orders & receive shop drawings from Mobile Plants suppliers	40d 22-Sep-15	19-Nov-15	27d 06-Jan-17 A	28-Mar-17	42%	-49d -335d	Issue orders & receive
PR220140	Mobile Plants	120d 20-Nov-15	18-May-16	51d 02-May-17	13-Jul-17	0%	-49d -286d	
PR220150	Issue orders & receive shop drawings from Laboratory Equipment Suppliers	Od		33d 24-Feb-17*	12-Apr-17	0%	-64d	
PR220190	Laboratory Equipment	0d		51d 13-Apr-17	29-Jun-17	0%	-64d	
Valves	· · · · · · · · · · · · · · · · · · ·	00		38d 27-Jun-16 A	13-Apr-17	570	-85d	
		Od		38d 27-Jun-16 A	13-Apr-17		-85d	
PR220101	3-Way Valve	Od		18d 27-Sep-16 A	15-Mar-17	80%	-65d	3-Way Valve
PR220160	Gate Valve	0d		38d 27-Jun-16 A	13-Apr-17	81%	-97d	
PR220230	Pressure Regulating Valve	0d		18d 30-Nov-16 A	15-Mar-17	78%	-72d	Pressure Regulating Valve
PR220240	Pressure Relief Valve	0d		18d 30-Nov-16 A	15-Mar-17	78%	-65d	Pressure Relief Valve
PR220250	Solenoid Valve	0d		21d 28-Feb-17*	28-Mar-17	0%	-81d	Solenoid Valve
PR220270	Electric Actuator for Ball Valve and Gate Valve	0d		30d 27-Jun-16 A	31-Mar-17	82%	-89d	Electric Actuator
Electrical System	a & Accessories	72d 19-Oct-15	14-Jan-16	56d 11-Jul-16 A	28-Apr-17		-74d -379d	
			• -	· · · · · · · · · · · · · · · · · · ·			<b>A A A A A</b>	
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h Rolling Program	me Progress	-	n <b>17-Feb-17</b> IR BIOENERGY JV
2017 Mar	A		Mau
Mar	Apr		Мау
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ers & receive shop drawings from WWTS s	uppliers		
oping Plant			
G	RP Tank		
			ASP Stack (Insulati
receive shop drawings from CAPC suppliers			
G	RP Tanks		
ch 2 - Building 2)			
GRP Ductworks (Batch 3 - A	D)		
	, , , , , , , , , , , , , , , , , , ,		RP Ductworks (Batch 4 - Buildi
			(1 Ductworks (Datch 4 - Duild
Inline Fans			
ngs from Mechanical Equipment suppliers			
bework (SS316) for Building 1 Waste Receiv	ring & Pre-treatment		
bework (SS316) for Building 1 (Others)	5		
S316) for Building 2			
AD Pipe Racks			
316) for AD (Others)			
Pipework (SS316) f	or Biogas Pipe Racks		
<ol><li>for Biogas Area</li></ol>			
16) for Hot Water Room			
	Pipework (DI)		
	Pipev	vork (uPVC)	
Pipe Rack 1 Structure			
	Pipe Rack 3,4 and Pipe Cross	ing 1,2 Structure	
	Pipe Rack 2 Structure		
Roller Shutt	ara (I IK)		
	ers (UK)		
Lifting Appliance			
sue orders & receive shop drawings from PI	atforms, Handrails & Ladders su	uppliers	
Issu	e orders & receive shop drawin	gs from Mobile Plants sup	pliers
	lssue o	rders & receive shop drav	vings from Laboratory Equipme
			<u>.</u> ,,,
3-Way Valve			
	Gate	Valve	
Pressure Regulating Valve			
Pressure Relief Valve			
Sole	noid Valve		
	Electric Actuator for Ball Valve	and Gate Valve	
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IKSAR			Org	Contract No anic Waste Tre			s Phas	e 1			B-Month Rolling Progran	
y ID	Activity Name	BL Project BL Project S Duration		Remaining Start Duration	Finish	Activity % Complete				Feb	2017 Mar	
Electrical System 8	& Accessories	72d 19-Oct-15	14-Jan-16	56d 11-Jul-16 A	28-Apr-17		-136d			reb	Wiai	,
PR230125	MCC and Electrical Accessories System (Pre-treatment)	72d 19-Oct-15 0d	14-Jan-16	56d 11-Jul-16 A 17d 03-Aug-16 A	28-Apr-17 09-Mar-17		-136d -104d	-379d			MCC and Electrical Accessories Syste	em (Pre-treatment)
PR230135	MCC and Electrical Accessories System (CAPCS)	Od		17d 03-Aug-16 A	09-Mar-17	92%	-112d				MCC and Electrical Accessories Syste	em (CAPCS)
PR230155	MCC and Electrical Accessories System (WWTP)	Od		17d 03-Aug-16 A	09-Mar-17		-127d				MCC and Electrical Accessories Syste	em (WWTP)
PR230165	MCC and Electrical Accessories System (AD)	Od		14d 15-Jul-16 A	06-Mar-17		-94d				MCC and Electrical Accessories System (A	
				14d 15-Jul-16 A							MCC and Electrical Accessories System (Bi	
PR230175	MCC and Electrical Accessories System (Biogas Cleaning & Storage)	Od			06-Mar-17		-114d					
PR230178	MCC and Electrical Accessories System (Heat Recovery & Power General	ation) Od		14d 03-Aug-16 A	06-Mar-17	92%	-118d				MCC and Electrical Accessories System (H	eat Recovery & Power Gener
PR230180	Cables (HV & LV) and Accessories, Cable Containment System	61d 19-Oct-15	14-Jan-16	47d 11-Jul-16 A	28-Apr-17	86%	-121d	-317d				
PR230190	FAT of MCC (2nd batch - Remaining)	Od		0d 16-Jan-17 A	20-Jan-17 A	100%		FAT of MC	C (2nd batch - Remaining)			
PR230240	Diesel Tank (Genset)	Od		0d 19-Aug-16 A	17-Feb-17 A	100%				Diesel Tank (Gens	et)	
11kV / 380V Stepdo	own Transformers	Od		42d 01-Dec-16 A	08-Apr-17		-60d					
· ·		0d		42d 01-Dec-16 A	08-Apr-17		-60d					Dhoses Ma
PR230280	Phasor Measurement Units (PMU) by CLP	Od		42d 01-Dec-16 A	08-Apr-17		-60d					Phasor Me
SCADA /PLC Sy	rstem	222d 27-May-15	22-Feb-16	56d 01-Mar-15 A	29-Apr-17		-114d					
General		222d 27-May-15 222d 27-May-15	22-Feb-16 22-Feb-16	56d 01-Mar-15 A 56d 01-Mar-15 A	29-Apr-17 29-Apr-17		-114d -114d	-350d -350d				
PR240100	Issue orders & receive shop drawings from SCADA/PLC suppliers	20d 27-May-15	23-Jun-15	0d 01-Mar-15 A	01-Feb-17 A			-399d	Issue orders & receiv	ve shop drawings from SCAI	A/PLC suppliers	
PR240120	SCADA/PLC System and component (Batch 1)	83d 22-Oct-15	22-Feb-16	0d 08-Jul-16 A	17-Feb-17 A	100%		-246d		SCADA/PLC Syste	m and component (Batch 1)	
PR240160	SCADA/PLC System and component (Batch 2)	Od		9d 19-Aug-16 A	02-Mar-17	90%	-90d				SCADA/PLC System and component (Batch 2)	
PR240200	SCADA/PLC System and component (Batch 3)	Od		37d 01-Feb-17 A	12-Apr-17	11%	-85d					sc
PR240220	FAT of SCADA/PLC System (Batch 3)	Od		36d 15-Mar-17*	29-Apr-17		-123d					
		311d 12-Feb-15	03-Mar-16	72d 17-Aug-15 A	20 / pr 17		-87d	-357d				
General	s Equipment (Including Lift & Renewable Energy System)	20d 12-Feb-15	13-Mar-15	60d 17-Aug-15 A	19-May-17		-100d					
55 05 0 1 0 0		20d 12-Feb-15	13-Mar-15	60d 17-Aug-15 A	19-May-17		-100d	-538d				
PR250100	Issue orders & receive shop drawings from BS suppliers	20d 12-Feb-15	13-Mar-15	4d 17-Aug-15 A	23-Feb-17		-116d	-482d		Issue o	rders & receive shop drawings from BS suppliers	
PR250130	Lifting Platform	0d		40d 20-Mar-17*	19-May-17	0%	-100d					
BS - Electrical		81d 05-Nov-15 81d 05-Nov-15	03-Mar-16 03-Mar-16	30d 08-Jun-16 A 30d 08-Jun-16 A	31-Mar-17 31-Mar-17		-42d -42d	-268d -268d				
PR250225	BS - Light Fittings	0d	05-11121-10	30d 07-Sep-16 A	31-Mar-17		-42d	-2000				BS - Light Fittings
PR250230	ELV System Equipment	81d 05-Nov-15	03-Mar-16	20d 08-Jun-16 A	17-Mar-17	92%	-105d	-258d			ELV System Equipmen	t
BS - Fire Services		97d 05-Nov-15	03-Mar-16	71d 21-Feb-17	21-May-17		-137d	-357d				
		97d 05-Nov-15	03-Mar-16	71d 21-Feb-17	21-May-17		-137d	-357d				•
PR250210	Fire Services System Equipment (Fire Damper)	81d 05-Nov-15	03-Mar-16	23d 01-Mar-17*	31-Mar-17		-87d	-268d				Fire Services System Equ
PR250212	Fire Services System Equipment (FM200)	Od		23d 01-Mar-17*	31-Mar-17		-93d					
PR250214	Fire Services System Equipment (AFA)	0d		23d 01-Mar-17*	31-Mar-17	0%	-107d					Fire Services System Eq
PR250250	Street Fire Hydrant System GRP Tanks and Assoicated Pipework	Od		90d 21-Feb-17	21-May-17	0%	-174d					
BS - MVAC		137d 14-Aug-15 137d 14-Aug-15	03-Mar-16 03-Mar-16	47d 07-Sep-16 A 47d 07-Sep-16 A	28-Apr-17 28-Apr-17		-66d -66d	-285d -285d				
PR250170	Cooling Tower	81d 05-Nov-15	03-Mar-16	47d 04-Nov-16 A	28-Apr-17		-66d	-285d			· · · · · · · · · · · · · · · · · · ·	
PR250180	Chilled Water Circulation Pumps	83d 14-Aug-15	11-Dec-15	47d 07-Sep-16 A	28-Apr-17	62%	-116d	-339d				
PR250200	Air Handling Units	83d 14-Aug-15	11-Dec-15	47d 13-Oct-16 A	28-Apr-17	58%	-104d	-339d				
PR250240	Fan Coil Units			47d 16-Nov-16 A	28-Apr-17		-113d					
	(Compressed Air, Process Water, Process Clean Water)	Od		30d 27-Sep-16 A	31-Mar-17		169d					
General	(Compressed Ail, Flocess Waler, Flocess Clear Waler)	Od		30d 27-Sep-16 A	31-Mar-17		169d					
PR260120	Process Water System	0d 0d		30d 27-Sep-16 A	31-Mar-17 15-Mar-17		169d 181d				Process Water System	
				18d 28-Dec-16 A								Process Clean Water Sy
PR260140	Process Clean Water System	0d		30d 27-Sep-16 A	31-Mar-17		-104d					Thoess clean water by
Hot Water Syste Hot Water System		Od Od		47d 17-Aug-16 A 47d 17-Aug-16 A	28-Apr-17 28-Apr-17		142d 142d					
		0d		47d 17-Aug-16 A	28-Apr-17		142d					
PR140220	Insulation and Cladding	Od		42d 27-Feb-17*	28-Apr-17	0%	142d					
PR140240	Break Tank	0d		18d 02-Sep-16 A	15-Mar-17	88%	-98d				Break Tank	
PR140280	Softener	Od		18d 17-Aug-16 A	15-Mar-17	90%	-120d				Softener	
IVIL AND STRU	JCTURAL WORKS	330d 02-Sep-15	13-Oct-16	148d 13-Nov-15 A	18-Aug-17		-95d	-251d				
General		Od		3d 07-Mar-17	09-Mar-17		-35d					
		Od Od		3d 07-Mar-17 3d 07-Mar-17	09-Mar-17		-35d -35d					
PR100030	Dismantle of Tower Crane	0d 0d		3d 07-Mar-17 3d 07-Mar-17*	09-Mar-17 09-Mar-17		-35d -35d				Dismantle of Tower Crane	
Waste Receiving	g, Pre-treatment & Administration Building #1 (Zone #1)	209d 24-Oct-15	09-Jul-16	102d 04-Nov-16 A	24-Jun-17		-79d	-284d				
	rid 6-15/H-K.5 - Part A (Adm. Building)	0d		15d 10-Mar-17	27-Mar-17		-35d					
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		ctivity 🔷	V Dasell	ine Milestone	Critica	ai 🔍	<b>~</b>	Actual Willestone	Baseline: Co	maat Programme	for The Design and Construction	Page 6 of 1

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d Electrical Accessories System			
d Electrical Accessories System			
d Electrical Accessories System	(WWTP)		
trical Accessories System (AD)			
trical Accessories System (Biog	as Cleaning & Storage)		
trical Accessories System (Hea	Recovery & Power Generation	)	
		Ca	ables (HV & LV) and Accessori
	Phasor Measu	rement Units (PMU) by C	Р
ind component (Batch 2)			
	SCADA	/PLC System and compo	
			FAT of SCADA/PLC System (B
igs from BS suppliers			
	BS - Light Fittings		
ELV System Equipment			
	Fire Services System Equipme	ent (Fire Damper)	
	Fire Services System Equipme	ent (FM200)	
	Fire Services System Equipme	ent (AFA)	
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	, , ,	C	oling Tower
			hilled Water Circulation Pumps
			Handling Units
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Process Water System			
	Process Clean Water System		
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Break Tank			
Softener			
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onmental Protect HKSAR	ion Department		Once	Contract No nic Waste Trea			Dhac	o 1		3-Month Rolling Program	me Progress l
ivity ID	Activity Name	BL Project BL Project S	tart BL Project	Remaining Start	atment F	Activity %	Phase otal Float	e I Variance		2017	
,		Duration	Finish	Duration		Complete		- BL Project	Feb	Mar	Apr
CC100130	Bay J Footing - Tower Crane Area	0d 0d		15d 10-Mar-17 15d 10-Mar-17	27-Mar-17 27-Mar-17	0%	-35d -35d			Bay J	Footing - Tower Crane Area
	l 6-10/L-Q - Part B (WWTP)	0d		72d 04-Nov-16 A	19-May-17		-57d				
ABWF Works CC112210	Clearance of Internal Area of G/F (Part B)	0d 0d		72d 04-Nov-16 A 18d 04-Nov-16 A	19-May-17 10-Mar-17	86%	-57d -142d			Clearance of Internal Area of G/F (Par	t B)
CC112230	ABWF Works at G/F (Part B)	0d		27d 19-Dec-16 A	21-Mar-17	62.5%	-145d			ABWF Works at	G/F (Part B)
CC112280	External and Remaining ABWF Works (Part B)	0d		45d 22-Mar-17	19-May-17	0%	-57d				•
Handover of Works to	o E&M	0d		13d 10-Feb-17 A	15-Mar-17		-45d				
CC112300	Handover G/F to E&M Works (Zone #1.1.5 Part B - Building 1 - WWTP Area - SBR Tanks)	0d		0d 10-Feb-17 A		100%			Handover	G/F to E&M Works (Zone #1.1.5 Part B - Building 1 - WWTP Area - SBR Tanks)	
	Handover G/F to E&M Works (Zone #1.1.5 Part B - Building 1 - WWTP Area - Air Compressor Room)	0d		0d 28-Feb-17		0%	-114d			♦ Handover G/F to E&M Works (Zone #1.1.5 Part B - Building)	g 1 - WWTP Area - Air Compress
	Handover G/F to E&M Works (Zone #1.1.5 Part B - Building 1 - WWTP Area - DG Stores)	0d		0d 15-Mar-17		0%	-45d			♦ Handover G/F to E&M Works	(Zone #1.1.5 Part B - Building 1 -
CC112320	Handover G/F to E&M Works (Zone #1.1.5 Part B - Building 1 - WWTP Air Blowers Area)	0d		0d 03-Mar-17		0%	-145d			♦ Handover G/F to E&M Works (Zone #1.1.5 Part B -	Building 1 - WWTP Air Blowers Are
Superstructure at Grid	6-15/H-K.5 - Part A (Adm. Building, Workshop & F.S. Pump Rm.)	0d		102d 15-Nov-16 A	24-Jun-17		-79d				
G/F to 1/F @+14.200 CC100605	Bay J - Structure at Tower Crane Area	0d 0d		20d 28-Mar-17 20d 28-Mar-17	24-Apr-17 24-Apr-17	0%	-35d -35d				
CAPCS Stack		Od		47d 09-Mar-17	09-May-17		-132d				
CC100725	Fabricate & Deliver CAPCS Structural Steelwork	0d		29d 09-Mar-17*	12-Apr-17	0%	-132d				Fabricate
CC100730	CAPCS Stack to +32.000 (Structural Steelwork)	0d		18d 13-Apr-17	09-May-17	0%	-132d				
ABWF Works CC100630	ABWF Works at G/F (Part A - incl. Contractor's Office)	0d 0d		102d 15-Nov-16 A 25d 15-Nov-16 A	24-Jun-17 18-Mar-17		-79d -100d			ABWF Works at G/F (I	eart A - incl. Contractor's Office)
	Erect bamboo working platform at Internal Area of Mess Lev. & 1/F (Part A)	Od		0d 19-Dec-16 A	04-Feb-17 A				Erect bamboo workin	g platform at Internal Area of Mess Lev. & 1/F (Part A)	
	ABWF Works at M/F (Part A - incl. Plant Rooms, Laboratory, Changing Rooms	Od		39d 06-Jan-17 A	05-Apr-17	43%	-143d				ABWF Works at M/F (
	and CCR)										
	ABWF Works at 1/F (Part A - incl. EPD's Office)	b0		36d 21-Mar-17	08-May-17	0%	-126d				
	ABWF Works at R/F (Part A)	Od		18d 12-Apr-17	08-May-17	0%	-79d				
	Rermoval of Scaffolding and Working Platform (Part A)	Od		0d	08-May-17	0%	-79d				
CC100680 Handover of Works to	External and Remaining ABWF Works (Part A)	0d 0d		75d 22-Mar-17 54d 21-Jan-17 A	24-Jun-17 09-May-17		-79d -105d				
	Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 Workshop)	Od		0d 26-Jan-17 A	09-Iviay-17	100%	- 1050		Handover G/F to E&M Works (Zone #1	.1.3 Part A - Building 1 Workshop)	
CC100691	Handover G/F to E&M Works (Zone #1.1.3 Part A - Building 1 F.S.Pump Rm.)	0d		0d 21-Jan-17 A		100%			Handover G/F to E&M Works (Zone #1.1.3 Part.)	A Building 1 F.S.Pump Rm.)	
CC100692	Handover G/F to E&M Works (Zone #1.1.4 Part A - Building 1 WWTP MCC	Od		0d 28-Feb-17		0%	-100d			◆ Handover G/F to E&M Works (Zone #1.1.4 Part A - Buildin	g 1 WWTP MCC Room)
	Room) Handover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Adm. Bldg. Grid	Od		0d 20-Mar-17		0%	-85d			♦ Handover G/F to E8	M Works (Zone #1.2.2 Part A - Bu
	Hundover G/F to E&M Works (Zone #1.2.2 Part A - Building 1 Adm. Bldg. F.S.	00					-68d				M Works (Zone #1.2.2 Part A - Bu
	Control Room)					0%				♦ Handover MF to E&M Works (Zone #1.2)	
	Handover M/F to E&M Works (Zone #1.2.3 Part A-Building 1 Adm. Bldg. Plant Room, Changing Room, Lab.& Corrdior at GL.11)	Od		0d 09-Mar-17		0%	-94d				
CC100845	Handover M/F to E&M Works (Zone #1.2.3 Part A - Building 1 Adm. Bldg. Central Conrtrol Room)	0d		0d 06-Apr-17		0%	-143d				<ul> <li>Handover M/F to E&amp;N</li> </ul>
	Handover 1/F to E&M Works (Zone #1.2.4 Part A - Building 1 Adm. Bldg. incl. EPD's Office)	0d		0d 09-May-17		0%	-126d				
Superstructure at Grid M/F to 1/F @+17.200	110-15/K.5-Q - Part C (Bunker & Influence Zone)	149d 06-Jan-16 0d	09-Jul-16	90d 02-Dec-16 A 9d 02-Dec-16 A	10-Jun-17 28-Feb-17		-67d -5d	-272d			
	Construct Roof at Temporary Opening at +17.20mP.D.	Od		0d 02-Dec-16 A	17-Jan-17 A	100%	- Cu		Construct Roof at Temporary Opening at +17.20mP.D.		
CC102214	Concrete Curing and Scaffolding Removal	0d		11d 18-Jan-17 A	28-Feb-17	73.81%	-6d			Concrete Curing and Scaffolding Removal	
CC102216	Remaining Chiller / Plant Room at 1/F	0d		0d 18-Jan-17 A	24-Jan-17 A	100%			Remaining Chiller / Plant Room at 1/F		
ABWF Works		149d 06-Jan-16	09-Jul-16	90d 12-Dec-16 A	10-Jun-17		-67d	-272d			
CC102280	Erect bamboo working platform at Internal Area of G/F (Part C)	12d 06-Jan-16	19-Jan-16	14d 12-Dec-16 A	06-Mar-17	78%	-130d	-333d		Erect bamboo working platform at Internal Are	a of G/F (Part C)
	ABWF Works at G/F (Part C - SBT Pump Room, Bay E and Bay G)	24d 20-Jan-16	19-Feb-16	25d 19-Dec-16 A	18-Mar-17		-141d	-320d			Part C - SBT Pump Room, Bay Ea
	ABWF Works at G/F (Part C - Bay D - Temporary Opening Filled)	0d		26d 11-Feb-17 A	20-Mar-17	11%	-87d			ABWF Works at G	F (Part C - Bay D - Temporary Op
	ABWF Works at 1/F and R/F (Part C - Pre-treatment and CAPCS MCC Rooms)	40d 29-Mar-16	17-May-16	0d 05-Jan-17 A	17-Feb-17 A	100%		-226d		ABWF Works at 1/F and R/F (Part C - Pre-treatment and CAPCS MCC Room	
	ABWF Works at G/F, 1/F and R/F (Part C - incl. Chiller / Plant Room) - Temporary Opening Filled	0d		34d 23-Jan-17 A	29-Mar-17	32%	-142d			A	BWFWorks at G/F, 1/F and R/F (I
CC102370	Rermoval of Scaffolding and Working Platform (Part C)	0d	17-May-16	0d	01-Apr-17	0%	-40d	-263d			Rermoval of Scaffolding and W
CC102380	External and Remaining ABWF Works (Part C)	85d 24-Mar-16	09-Jul-16	85d 24-Feb-17	10-Jun-17	0%	-67d	-272d			
Handover of Works to		56d 04-Feb-16	18-Apr-16	34d 18-Feb-17	30-Mar-17		-95d	-284d		▲ Handover C/E to ERM Works (Zono #1.1.7 Bart C. Puildi	a 1 CL 11 12/K M Area E1)
	Handover G/F to E&M Works (Zone #1.1.7 Part C - Building 1 GL.11-13/K-M- Area E1)	Od		0d 28-Feb-17		0%	-131d			<ul> <li>Handover G/F to E&amp;M Works (Zone #1.1.7 Part C - Building)</li> <li>Handover C/E to ES</li> </ul>	
	Handover G/F to E&M Works (Zone #1.1.7 Part C - Building 1 GL.13-15/K-M- Area E2)	Od		0d 20-Mar-17		0%	-141d				M Works (Zone #1.1.7 Part C - B
	Handover G/F to E&M Works (Zone #1.1.8 Part C - Building 1 - Area D1 Bunker & Crusher area)	Od		0d 21-Mar-17		0%	-87d			♦ Handover G/F to	
CC101808	Handover G/F to E&M Works (Zone #1.1.8 Part C - Building 1 - Area D2 Waste Inspection Area and Access Platform)	0d		0d 08-Mar-17		0%	-76d			♦ Handover G/F to E&M Works (Zone #1.1.8)	Part C - Building 1 - Area D2 Wa
CC102400	Handover G/F to E&M Works (Zone #1.1.9 Part C - Building 1 - Area G1 RCV Bay 1 & 2)	0d 04-Feb-16		0d 20-Feb-17		0%	-139d	-307d		◆ Handover G/F to E&M Works (Zone #1.1.9 Part C - Building 1 - Area G1	RCV Bay 1 & 2)
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t:v1.4_up_17Feb1	7 Activit	у 🔷	🔷 Baselir	ne Milestone	Critica	al 🔶	4	Actu		ct Programme for The Design and Construction	Page 7 of 17
		ry Baseline 🔶	<ul> <li>Milesto</li> </ul>			l Work			Works v1.4	- · · · · · · · · · · · · · · · · · · ·	

ng Program	me Progress	-	<b>n 17-Feb-17</b> Ar bioenergy JV
2017			
ır	Apr		May
Bay J	Footing - Tower Crane Area		
e of Internal Area of G/F (Par	t B)		
ABWF Works at	G/F (Part B)		
WWTP Area - SBR Tanks)			
(Zone #1.1.5 Part B - Buildi	ng 1 - WWTP Area - Air Compre	ssor Room)	
andover G/F to E&M Works	(Zone #1.1.5 Part B - Building 1	- WWTP Area - DG Stor	es)
Vorks (Zone #1.1.5 Part B -	Building 1 - WWTP Air Blowers 7	Area)	
		Bay L. St	ructure at Tower Crane Area
		Buy to b	
	Fabrica	te & Deliver CAPCS Stru	tural Steelwork
			CAPCS Sta
ABWF Works at G/F (	Part A - incl. Contractor's Office)		
)			
	ABWF Works at M/F	(Part A - incl. Plant Roon	s, Laboratory, Changing Room
			ABWF Works
			ABWF Works
			Rermoval of S
(Zone #1.1.4 Part A - Buildir	g 1 WWTP MCC Room)		
<ul> <li>Handover G/F to E8</li> </ul>	M Works (Zone #1.2.2 Part A -	Building 1 Adm. Bldg. Grid	H-L/10-15, incl. Contractor's (
	M Works (Zone #1.2.2 Part A -		
/F to E&M Works (Zone #1.)	2.3 Part A - Building 1 Adm. Bldg.	Plant Room, Changing Ro	om, Lab.& Corrdior at GL.11)
	Handover M/F to E	&M Works (Zone #1.2.3 F	art A - Building 1 Adm. Bldg. C
			Handover 1/
lding Removal			
rking platform at Internal Are	a of G/F (Part C)		
	Part C - SBT Pump Room, Bay E	and Bay (C)	
	F (Part C - Bay D - Temporary C		
		spormig r mody	
ent and CAPCS MCC Room			
A	BWF Works at G/F, 1/F and R/F	Part C - Incl. Chiller / Pla	Int Room) - Temporary Openin
	Rermoval of Scaffolding and	Working Platform (Part C	9
(Zone #1.1.7 Part C - Buildi	ng 1 GL.11-13/K-M- Area E1)		
			Area 52)
	M Works (Zone #1.1.7 Part C -		
<ul> <li>Handover G/F to</li> </ul>	E&M Works (Zone #1.1.8 Part C	C - Building 1 - Area D1 Bu	nker & Crusher area)
to E&M Works (Zone #1.1.3	8 Part C - Building 1 - Area D2 W	aste Inspection Area and	Access Platform)
Part C - Building 1 - Area G1	RCV Bay 1 & 2)		
Construction	Page 7 of 17	print	: 01-Mar-17 10:34
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Decision with the set of th	CC102405 CC102410		BL Project BL Project Sta									
State       Description       Description <thdescription< th="">       &lt;</thdescription<>	CC102410		Duration		Remaining Start Duration	Finish	Activity % Complete	Total Float		<b>F</b> .b.	2017	
Sinder     Sinder address and and address and addre			Od		0d 20-Feb-17		0%	-127d	Project		-	(CV Bay 3 & 4)
Oright	CC102411	Handover 1/F to E&M Works (Zone #1.2.5 Part C - Building 1 - CAPCS Area -	0d		0d 30-Mar-17		0%	-142d			♦ H:	andover 1/F to E&M Wo
Sinter     Sinter and Provincing Sinter		Handover 1/F to E&M Works (Zone #1.2.5 Part C - Building 1 - Pre-treatment	Od		0d 18-Feb-17		0%	-87d		♦ Handover 1/F to E&M Works (Zone #1.2.6)	Part C - Building 1 - Pre-treatment	MCC Room, +17.350)
Bitter         Bitter<	CC102412	Handover 1/F to E&M Works (Zone #1.2.5 Part C - Building 1 - CAPCS MCC	Od		0d 18-Feb-17		0%	-87d		Handover 1/F to E&M Works (Zone #1.2.5)	Part C - Building 1 - CAPCS MCC	Rooms, +17.350)
Image: Province of the sector of the sect	CC102415		Od		0d 30-Mar-17		0%	-117d			<b>♦</b> H	andover 1/F to E&M W
Normal         Normal<	CC102420	Room Area)	0d 18-Apr-16		0d 30-Mar-17		0%	-97d	-284d		♦ н	andover 1/E to E&M W
Bind		Remaining Area)		09-Mar-16		12-Apr-17						
Sinterior	Steel Roof and Cov	overed Walkway	112d 24-Oct-15	09-Mar-16	43d 28-Dec-16 A	12-Apr-17	100%		-324d			;
Land Land Land Land Land Land Land Land Land Land 								1004				
Second Matrix     And Matrix				09-101-10					-3030		Erect Roof Steelwork	Fabricate a
Concert plane / Longer plane												
Image: state in the state i				25-May-16					-283d			;
Statical of the state of th	Composting Building	<u> </u>	111d 05-Jan-16	23-May-16	64d 13-Jul-16 A	10-May-17		-65d	-285d			
Image data and matching have       1 <td< td=""><td></td><td>Erect Cladding for Building #2 Covered Walkway</td><td></td><td>23-May-16</td><td></td><td></td><td>75%</td><td></td><td>-285d</td><td></td><td>ect Cladding for Building #2 Covere</td><td>d Walkway</td></td<>		Erect Cladding for Building #2 Covered Walkway		23-May-16			75%		-285d		ect Cladding for Building #2 Covere	d Walkway
Divide     Divide <td>CC103319</td> <td>Erect Cladding for Building #2 Steel Roof</td> <td>0d</td> <td></td> <td>0d 22-Dec-16 A</td> <td>24-Jan-17 A</td> <td>100%</td> <td></td> <td></td> <td>Erect Cladding for Building #2 Steel Roof</td> <td></td> <td></td>	CC103319	Erect Cladding for Building #2 Steel Roof	0d		0d 22-Dec-16 A	24-Jan-17 A	100%			Erect Cladding for Building #2 Steel Roof		
DDDD     Market regression     Add     Add     Model     Model <td>CC103360</td> <td>Internal Finishing Works</td> <td>39d 10-Mar-16</td> <td>28-Apr-16</td> <td>25d 22-Jul-16 A</td> <td>18-Mar-17</td> <td>88.29%</td> <td>-125d</td> <td>-265d</td> <td></td> <td>Internal Finishing Works</td> <td> ۶</td>	CC103360	Internal Finishing Works	39d 10-Mar-16	28-Apr-16	25d 22-Jul-16 A	18-Mar-17	88.29%	-125d	-265d		Internal Finishing Works	 ۶
Could       Reading (MP Pack       Could       Could <td>CC103400</td> <td>External Finishing Works</td> <td>43d 24-Mar-16</td> <td>19-May-16</td> <td>31d 26-Sep-16 A</td> <td>25-Mar-17</td> <td>82%</td> <td>-32d</td> <td>-255d</td> <td></td> <td></td> <td>inishing Works</td>	CC103400	External Finishing Works	43d 24-Mar-16	19-May-16	31d 26-Sep-16 A	25-Mar-17	82%	-32d	-255d			inishing Works
Interview         Interview <t< td=""><td>CC103420</td><td>ABWF Work</td><td>40d 05-Jan-16</td><td>23-Feb-16</td><td>0d 13-Jul-16 A</td><td>09-Feb-17 A</td><td>100%</td><td></td><td>-285d</td><td>ABWF Work</td><td></td><td></td></t<>	CC103420	ABWF Work	40d 05-Jan-16	23-Feb-16	0d 13-Jul-16 A	09-Feb-17 A	100%		-285d	ABWF Work		
C100000         Hadarian EM Marker EM Vise Size Vise Size Vise Size Vise Size Size Vise Vise Vise Vise Vise Vise Vise Vis	CC103440	Remaining ABWF Work	71d 24-Feb-16	23-May-16	64d 10-Feb-17 A	10-May-17	9.86%	-65d	-285d			
Concerned         Concerned <t< td=""><td></td><td></td><td></td><td>23-May-16</td><td></td><td></td><td></td><td>-125d</td><td>-246d</td><td>Charles of the Statistics / Testatistics / Testatistics / Testatistics / Testatistics / Testatistics</td><td>37/₽\</td><td></td></t<>				23-May-16				-125d	-246d	Charles of the Statistics / Testatistics / Testatistics / Testatistics / Testatistics / Testatistics	37/₽\	
Link blug Zures Zures         Add Warks at lack hungs         Add Warks at lac										Handover to Eavin works (Zone #2.1.9 - Dewatering Area -		
CDB MT         MT <th< td=""><td>CC103460</td><td>Handover to E&amp;M Works (Zone #2.1.10 - Building 2 Other Remaining Area)</td><td>Od</td><td>23-May-16</td><td>Od</td><td>18-Mar-17*</td><td>0%</td><td>-125d</td><td>-246d</td><td></td><td>Handover to E&amp;M Work:</td><td>s (Zone #2.1.10 - Bu</td></th<>	CC103460	Handover to E&M Works (Zone #2.1.10 - Building 2 Other Remaining Area)	Od	23-May-16	Od	18-Mar-17*	0%	-125d	-246d		Handover to E&M Work:	s (Zone #2.1.10 - Bu
Product of Hanne v Hall         Op         Operator B All Works (Bay 2000 FB)         Operator B All Works (Bay 2000 FB) <td>Link Bridge (Zone #2</td> <td>2.2)</td> <td></td>	Link Bridge (Zone #2	2.2)										
Backet Write:         EMM         Columna	CC104160	ABWF Works at Link Bridge	36d 12-Apr-16	25-May-16	25d 06-Feb-17 A	21-Apr-17	30.56%	-120d	-269d			
Attain Building & Facility Close 3()         No.         Origin for the Second S							0%					
First State     State <td></td>												
CC10300       MVP finance												
Handword Wirks 26.40         Add Oxfart 60         Oxfart 70         Oxfart 70<	CC105320	ABWF Works					68%				ABWF Wo	prks
CC108334         Handower for EAM Works (Big F3Zover R1.3 - Energy Centre R0vin)         0         0         0         2 # P-0-7         0%         490         0         4900-496 (EAM Works (Big F3Zover R1.3 - Energy Centre R0vin)         0         0         2 # P-0-7         0%         4900         0         0         0         2 # P-0-7         0%         4900         0        <	cc105325	External Wall Finishes	0d		45d 09-Mar-17	06-May-17	0%	-123d				
CLUCK         Industry to EAM Works (Bdg 3-5 Energy Centre 3no. MCC 40         Cut 0				03-Mar-16			0%			➡ Handover to E&M Wo	ks (Bldg #3/Zone #3.1.3 - Energy C	centre Roof)
Lower Roh         Lower Roh <thlower roh<="" th=""> <thlower roh<="" th=""> <thl< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thl<></thlower></thlower>												
area         area <t< td=""><td></td><td>Lower Roof)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Lower Roof)										
Image in the size of the size		areas)									ts (blug #3/2011e #3.1.4 - Energy G	
General         Tends         Febre 16         108         19-Feb-16         104Ma-16         300         0-Sap-16A         24Mar-17         -101         -308         Control         ABWF for hump buildings         Control         ABWF for hump buildings         Control         Contro         Control         Control         Contro         Control         Contro         Contro         Contro         Contro         Contro         Contro         Contro         Contro </td <td>CC105340</td> <td></td> <td>Od</td> <td>03-Mar-16</td> <td>Od</td> <td>05-Apr-17</td> <td>0%</td> <td>-123d</td> <td>-323d</td> <td></td> <td></td> <td>Handover</td>	CC105340		Od	03-Mar-16	Od	05-Apr-17	0%	-123d	-323d			Handover
CAPCS Back (ms/e         Building 1         2452         24-Nov-15         23-Sep-16         420         13-Apr-17         07-Jun-17         -1320         -2056           CC105220         Freet structural stell support for CAPCS duct (Refer to Building 1)         18d         26-Aug-16         13-Apr-17         07-Jun-17         -1320         -2056           CC105200         ABWF Work         24d         26-Aug-16         13-Apr-17         07-Jun-17         -1320         -2056           Handover of Works         EAM         64-Aug-16         16-De-15         16-Be-15		n Tanks (Zone #3.2)										
CAPCS Stack (mode   b under 10 - 30 dd 2 a b, vor 15       23 de - 16 dd 3 b, vor 15       23 de - 16 dd 3 b, vor 15       0 1 b, v	CC106320	ABWF for Pump Buildings	18d 19-Feb-16	10-Mar-16	30d 05-Sep-16 A	24-Mar-17	80%	-31d	-308d			ump Buildings
CC108200       Efect structural steel support for CAPCS duct (Refer to Building 1)       188       2e-Nov-15       189       13-Apr-17       094       0.7320       -0.804         CC108200       ABW F Work       CAM       0       6-Dec-15       0       12-May-17       0%       1.320       -0.804         Handword Work to EAM Work to Cone #3.4 - CAPCS Stack)       00       16-Dec-15       0       12-May-17       1.240       -1.320       -4.104         Bogas Ceaning & Storage Tark (Zore #3.4)       700       30-Oct-15       22-Jan-16       364       27-Jun-16A       16-Ben-15       05-Apr-17       -1.320       -4.104         Bogas Floder / Bogas Ploder / Bogas Plod	CAPCS Stack (inside	Je Building 1)										
Handover of Works       E&M       Od       16-Dec-15       12-May-17       12-May-17       12-May-17       13-May-17       13-May 17	CC108220	Erect structural steel support for CAPCS duct (Refer to Building 1)				09-May-17	0%					
CC108240       Handover to E&M Works (Zone #3.4 - CAPCS Stack)       0 d       16-Dec-15       0 d       12-May-17       0 %       -132d       -111d         Bogas Cleaning & Storage Tank (Zone #3.5)       70d       30-Oct-15       22-Jan-16       39d       27-Jun-16A       05-Apr-17       -142d       -355d         Bogas Holder / Bogas Plant       70d       30-Oct-15       22-Jan-16       39d       27-Jun-16A       05-Apr-17       -142d       -355d         C0109200       Raft Foundations       6d       30-Oct-15       22-Jan-16       19 d       12-Sep-16       18-Mar-17       95%       -136d       -05d         C0109200       Clearance       6d       30-Oct-15       22-Jan-16       19 d       12-Sep-16A       18-Mar-17       95%       -136d       -05d       -05d       -05d       -05d       -05d       -06d	CC108260	ABWF Work	24d 26-Aug-16	23-Sep-16	24d 10-May-17	07-Jun-17	0%	-132d	-205d			
Biogas Cleaning & Ucone #3.5.)       Tod       30-Oct-15       22-Jan-16       39d       27-Jun-16A       05-Apr-17       -142d       385d         Biogas Holder / Biogas Holder / Biogas       Raft Foundations       6d       30-Oct-15       22-Jan-16       39d       27-Jun-16A       05-Apr-17       -142d       385d         CC 109220       Raft Foundations       6d       30-Oct-15       22-Jan-16       39d       27-Jun-16A       05-Apr-17       -142d       385d         CC 109220       Raft Foundations       6d       30-Oct-15       22-Jan-16       39d       27-Jun-16A       18-Mar-17       95%       -136d       -405d         CC 109220       Clearance       4d       18-Dec-15       22-Jan-16       39d       25-Bp-15       199d       12-Sep-16A       05-Apr-17       -136d       -357d       -405d       -405d       -405d       -405d       -405d       -405d       -405d       -405d       -405d       -371d							0%					
Biogas Holder / Biogas Holder	Biogas Cleaning & S	· · · ·	70d 30-Oct-15		39d 27-Jun-16 A	-						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Biogas Holder / Biog	ogas Plant					95%				Pott Foundations	
CC109300ABWF WorksABWF WorksCC109300ABWF WorksCC109300C2C2C2C2C2C3												
Mandover of Works       E&M       Od       22-Jan-16       22-Jan-16       Od       05-Apr-17       05-Apr-17       -130d       -355d         CC109380       Handover to E&M Works (Zone #3.5.1 - Biogas Cleaning & Storage Tank)       Od       22-Jan-16       Od       05-Apr-17       0%       -130d       -355d         CC109400       Handover to E&M Works (Zone #3.5.3 - Biogas Dehumidifier       Od       C       00       0.5       Od       0.5       Od       -142d       -335d       -355d         Weighbridge (Zone #3.61 - Biogas Cleaning & Storage Tank)       0.6       I       0.6       0.5       0.7       0.6       -142d       -335d         Weighbridge (Zone #3.61 - Biogas Dehumidifier       85d       15-Dec-15       01-Apr-16       70d       13-Dec-16A       17-May-17       -332d       -335d         Meadower       85d       15-Dec-15       01-Apr-16       70d       13-Dec-16A       17-May-17       -74d       -332d       -335d       -335d         Meadower       85d       15-Dec-15       01-Apr-16       70d       13-Dec-16A       17-May-17       -74d       -332d       -335d       -3											Cicai al IUB	ABWF Wo
CC109380       Handover to E&M Works (Zone #3.5.1 - Biogas Cleaning & Storage Tank)       Od       22-Jan-16       Od												
Weighbridge (Zone #3.6)         85d         15-Dec-15         01-Apr-16         70d         13-Dec-16A         17-May-17							0%					Handover
85d 15-Dec-15 01-Apr-16 70d 13-Dec-16 A 17-May-17 -74d -332d	CC109400	Handover to E&M Works (Zone #3.5.3 - Biogas Dehumidifier	0d		Od	05-Apr-17	0%	-142d				Handover
	Weighbridge (Zone #	#3.6)										
	CC110140	Wall, Floor Slab and Stair					78%			Wall, Floor Slab	ind Stair	

olling Program	me Progress	-	<b>n 17-Feb-17</b> Ar bioenergy JV
2017 Mar	Apr		May
#1.1.9 Part C - Building 1 - Area G2			may
<b>ا</b> ♦	Handover 1/F to E&M Works (Zo	ne #1.2.5 Part C - Buildin	g 1 - CAPCSArea - Grid L-Q/
2.5 Part C - Building 1 - Pre-treatmen	t MCC Room, +17.350)		
2.5 Part C - Building 1 - CAPCS MCC	Rooms, +17,350)		
•	Handover 1/F to E&M Works (Zo	ne #1.2.6 Part C - Buildin	g i - Chiller Plant Room Area)
•	Handover 1/F to E&M Works (Zo	ne #1.2.7 Part C - Buildin	g 1 - Other Remaining Area)
kway Structural Steelwork			
Erect Roof Steelwo	rk		
	Fabricate and Install	Pipe Support	
	Erect C	overed Walkway	
Erect Cladding for Building #2 Cover	ed Walkway		
Internal Finishing Work	Ś		
External	Finishing Works		
			Remainir
a - 1/F)			
Handover to E&M Wor	ks (Zone #2.1.10 - Building 2 Otl	ner Remaining Area)	
		ABWF Works a	t Link Bridge
		Handover to E&	M Works at Link Bridge (Zon
ABWF W	orks		
			External Wall Fin
/orks (Bldg #3/Zone #3.1.3 - Energy	Centre Roof)		
Bldg #3 - Energy Centre 3nos. MCC F			
/orks (Bldg #3/Zone #3.1.4 - Energy	Centre G/F other areas)		
	Handover to E&M W	orks (Bldg #3/Zone #3.1.5	5 - Energy Centre Other Rema
ABW/E for	Rump Buildings		
			Erect struc
			♦ Hand
			Tanc
Raft Foundations			
Clearanc	e		
	ABWF Works		
	Handover to E&M W	orks (Zone #3.5.1 - Ricco	s Cleaning & Storage Tank)
		orks (Zone #3.5.1 - Bioga orks (Zone #3.5.3 - Bioga	
b and Stair			
n and Construction	Page 8 of 17	print	:: 01-Mar-17 10:34
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SAR			Oras	anic Was		). EP/SP utment F		Phase	e 1		3	-Month Rolli
	Activity Name	BL Project BL Project St	art BL Project	Remaining	Start Start	Finish		Total Float				
C110160	Wall and Roof Slab	Duration 15d 05-Jan-16	Finish 21-Jan-16	Duration 10d	04-Mar-17	15-Mar-17	Complete 0%	-117d	Project	Feb	1	Ma
C110180	Parapet	6d 22-Jan-16	28-Jan-16	6d	16-Mar-17	22-Mar-17	0%	-117d	-339d			
C110200	Backfill and Formation	6d 29-Jan-16	04-Feb-16		23-Mar-17	29-Mar-17	0%	-117d	-339d			
C110220	Concrete Structure for Weighbridge	17d 05-Feb-16	27-Feb-16		06-Feb-17 A	18-Feb-17	94.12%	-104d	-289d		Concrete Structur	re for Weighbridge
C110240	ABWF Work	26d 29-Feb-16	01-Apr-16		07-Apr-17	17-May-17		-74d	-332d			e ter treignenage
andover of Work		0d 01-Apr-16	01-Apr-16		29-Mar-17	17-May-17		-74d	-332d			
C110260	Handover to E&M Works ( Zone #3.6.2 - Weighbridge)	Od	01-Apr-16	Od		29-Mar-17	0%	-117d	-296d			
C110280	Handover to E&M Works ( Zone #3.6.1 - Weighbridge Control R $\infty$ m)	0d		Od		17-May-17	0%	-74d			-	
cellaneous Work		330d 02-Sep-15 0d	13-Oct-16		3-Nov-15 A	18-Aug-17		-95d -19d	-251d			
n High Boundary :C111170	Remaining Boundary Wall (after Slopework)	0d 0d			06-May-17 06-May-17	19-May-17 19-May-17	0%	- 190 -19d				
immary		268d 02-Sep-15	29-Jul-16		3-Nov-15 A	18-Aug-17						
C111220	Boundary Fence (Summary)	48d 02-Jun-16	29-Jul-16		10-Jun-16 A	18-Aug-17	20.21%	-95d	-313d			
C111280	Sitewide Drainage (Summary)	146d 17-Sep-15	15-Mar-16		3-Nov-15 A	29-Mar-17	71.6%	-106d	-308d			
C111300	Sitewide Sewage (Summary)	149d 02-Sep-15	03-Mar-16		3-Nov-15 A	29-Mar-17	63%	-106d	-318d			
C111320	Sitewide Pipe Ducts, Trenches, Drawpits and Utilities (Summary)	142d 05-Dec-15	01-Jun-16		0-Aug-16 A	09-Aug-17	49.4%	-137d	-353d			
cation Near Build C113100	ding 2 (Part 1) Boundary Fence - Type1, 2 & 3 (Part 1)	0d 0d			3-Nov-15 A 8-Nov-16 A	11-May-17 07-Apr-17	65%	-54d -30d				
C113150	Excavate for Drainage and Sewage (Part 1)	0d			3-Nov-15 A	10-Mar-17	90%	-143d			<b>]</b>	Excavate
C113200	Install Pipes and Construct Manholes for Drainage and Sewage (Part 1)	0d			5-Dec-15 A	17-Mar-17	86.1%	-143d				
C113250	Testing of Drainage and Sewage (Part 1)	0d			05-Apr-16 A	21-Mar-17	80%	-143d				
C113300	Backfilling of Drainage and Sewage (Part 1)	Od			11-Apr-16 A	24-Mar-17	80%	-143d				
C113350	Complete M/H STM-1 & Connect to Existing 500mm Trapezoidal Channel	Od			7-Dec-16 A	20-Jan-17 A	100%	1400		Complete M/H STM-1 & Connect to Existing 500m	m Trapezoidal Channel	1
C113500	Sitewide Pipe Ducts, Trenches & Drawpits (Part 1)	Od			0-Aug-16 A	30-Mar-17	85%	-143d				
C113510	Remaining Pipe Ducts, Drawpits, Drainage, Water Supply Pipes and FS Pipe (Part 1)	Od		30d	31-Mar-17*	11-May-17	0%	-143d				
cation Near Buili C114150	idng 1 Fence Wall (Part 2) Excavate for Drainage and Sewage (Part 2)	0d 0d			20-Apr-16 A 20-Apr-16 A	10-May-17 11-Mar-17	82%	-142d -133d				Excavat
C114200	Install Pipes and Construct Manholes for Drainage and Sewage (Part 2)	0d			25-Apr-16 A	25-Mar-17	78%	-142d				
C114250	Testing of Drainage and Sewage (Part 2)	Od			18-Jul-16 A	29-Mar-17	66%	-142d				
:C114300	Backfilling of Drainage and Sewage (Part 2)	Od			05-Sep-16 A	01-Apr-17	60%	-142d				
:C114350	Sitewide Pipe Ducts, Trenches & Drawpits (Part 2)	Od			26-Sep-16 A	06-Apr-17	58%	-142d				
:C114355	Remaining Pipe Ducts, Drawpits, Drainage, Water Supply Pipes and FS Pipe	Od			07-Apr-17	10-May-17	0%	-142d				
	(Part 2)						078					
cation between E C115100	Building 1 & AD Farm (Part 3) Excavate for Drainage and Sewage (Part 3)	0d 0d		0.1 4	6-Aug-16 A 6-Aug-16 A	06-May-17 20-Jan-17 A	100%	-133d		Excavate for Drainage and Sewage (Part 3)		
C115150	Install Pipes and Construct Manholes for Drainage and Sewage (Part 3)	0d		22d 1	8-Aug-16 A	15-Mar-17	75%	-103d				
C115200	Testing of Drainage and Sewage (Part 3)	Od			05-Sep-16 A	22-Mar-17	70%	-103d				
C115250	Backfilling of Drainage and Sewage (Part 3)	00			11-Jan-17 A	25-Mar-17	45%	-103d				
C115300	Sitewide Pipe Ducts, Trenches & Drawpits (Part 3)	Od			0-Dec-16 A	31-Mar-17	52%	-145d				
C115310	Remaining Pipe Ducts, Drawpits, Drainage, Water Supply Pipes and FS Pipe	Od			01-Apr-17	06-May-17	0%	-1450 -139d				
	(Part 3)		40.14			-			000.1		-	
cation between I C111240	Building 1 & Building 3 (Part 4) Gate House	43d 16-Mar-16 43d 16-Mar-16	10-May-16 10-May-16		15-Apr-16 A 16-Mar-17	16-Jun-17 13-Apr-17	0%	-92d -130d	-326d -277d			-
C111260	Handover of Zone #3.7 - Gate House for E&M Works	Od	10-May-16	Od		13-Apr-17	0%	-55d	-277d			
C116100	Boundary Fence - Type 1 & 4 (Part 4)	Od		95d 1	10-Jun-16 A	16-Jun-17	62%	-92d				
C116150	Excavate for Drainage and Sewage (Part 4)	Od		0d 1	15-Apr-16 A	20-Jan-17 A	100%			Excavate for Drainage and Sewage (Part 4)	+	
C116200	Install Pipes and Construct Manholes for Drainage and Sewage (Part 4)	Od			5-May-16 A	18-Mar-17	83%	-130d				
C116210	Complete M/H STM-2 & Connect to Existing 3m Trapezoidal Channel	0d			2-Aug-16 A	27-Jan-17 A				Complete M/H STM-2 & Connect to E	existing 3m Trapezoida	Channel
								400.4			5	
C116300	Testing of Drainage and Sewage (Part 4)	Od			6-May-16 A	25-Mar-17	85%	-130d				
C116350	Backfilling of Drainage and Sewage (Part 4)	Od			20-Jun-16 A	29-Mar-17	75%	-130d				
C116400	Sitewide Pipe Ducts, Trenches & Drawpits (Part 4)	Od			25-Jul-16 A	31-Mar-17		-145d				
C116410	Remaining Pipe Ducts, Drawpits, Drainage, Water Supply Pipes and FS Pipe (Part 4)	Od		25d	05-Apr-17	09-May-17	0%	-141d				
C116500	Water Meter Cabinet Construction	0d			11-Mar-17	31-Mar-17		-135d			4	
cation at Natural C111360	I Terrain (Sbpeworks) NTH Mitigation works	77d 13-Jul-16 77d 13-Jul-16	13-Oct-16 13-Oct-16		3-Dec-16 A 3-Dec-16 A	05-May-17 05-May-17		-49d -49d	-163d -163d			
	neous Structures	Od			16-Jan-17 A	17-May-17		-144d	. 200			
										i 1		
4_up_17Fet	b17 Activity	· 🔷	🔶 Baselir	ne Mileston	e 📃	Critica	al 🔷	0	Actu	al Milestone Baseline: Contra	act Programme	for The Design and

m	me Progress	-	<b>n 17-Feb-17</b> Ar bioenergy jv
	Apr		May
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В	ackfill and Formation		
♦ <sub>H</sub>	¦ andover to E&M Works (Zone ≴	#3.6.2 - Weighbridge)	
Si	ewide Drainage (Summary)		
_	tewide Sewage (Summary)		
0			
	Boundary Fence	- Type1, 2 & 3 (Part 1)	
ge (F	(art 1)		
nstru	pt Manholes for Drainage and S	ewage (Part 1)	
raina	ge and Sewage (Part 1)		
	f Drainage and Sewage (Part 1)		
in ig c			
	Sitewide Pipe Ducts, Trenches &	& Drawpits (Part 1)	
			Remain
	(Part 2)		
ıll Pip	es and Construct Manholes for	Drainage and Sewage (Pa	art 2)
Te	sting of Drainage and Sewage (	Part 2)	
	Backfilling of Drainage and S	ewage (Part 2)	
	Sitewide Pipe Duct	s, Trenches & Drawpits (I	Part 2)
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uct N	anholes for Drainage and Sewa	ige (Part 3)	
Drair	age and Sewage (Part 3)		
cfilling	of Drainage and Sewage (Part	3)	
	Sitewide Pipe Ducts, Trenches	& Drawpits (Part 3)	
			Remaining Pipe [
			rtendining ripe i
	Gate	House	
	•	over of Zone #3.7 - Gate	House for E&M Works
	- Hand	over of zone #3.7 - Gale	
Const	uct Manholes for Drainage and	Sewage (Part 4)	
ing of	Drainage and Sewage (Part 4)		
Ba	ckfilling of Drainage and Sewag	e (Part 4)	
	Sitewide Pipe Ducts, Trenches	& Drawpits (Part 4)	
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	Water Meter Cabinet Construc		
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	Page 9 of 17	print	t: 01-Mar-17 10:34
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KSAR	ction Department			Oran			o. EP/SP atment F		Phas	е 1			3-Month Rolling Progra	mme Progr
ID	Activity Name		BL Project BL Project Sta	art BL Project	Remaining		Finish	Activity %		Variance			2017	
CC117100	Pre-Excavation of Collection Chamber 1 (along grid 10	0-11) for large boulders	Duration 0d	Finish	Duration 0d	16-Jan-17 A	23-Jan-17 A	Complete 100%		- BL Proiect	Pre-Excava	Feb ion of Collection Chamber 1 (alo	Mar Drig grid 10-11) for large boulders underground	
CC117105	underground Sheet Pile, ELS System and Excavation of Collection (		0d			24-Jan-17 A	15-Mar-17	45%	-144d				Sheet Pile. ELS System	and Excavation of Collect
CC117110	Construction of Collection Chamber 1		0d		18d		06-Apr-17		-144d					Constru
CC117112	Sheet Pile and ELS for Associated Pipeworks for Colle	action Chamber 1 to	0d		12d		24-Apr-17		-1440 -144d					
	F3.05, F6.04 & F8.01, S1.06 to S1.07, DE045 to 46													
CC117114	Construction of Associated Pipeworks for Collection C & F8.01, S1.06 to S1.07, DE045 to 46	Chamber 1 to F3.05, F6.04	0d		18d	25-Apr-17	17-May-17	0%	-144d					
CC117120	Prim. Sedimentation Tank & Int. Pump Sump		0d		48d	08-Mar-17	09-May-17	0%	-137d					
CC117140	Construction of PC Pump and Conical Tank Concrete	Footings	0d		37d	29-Mar-17	17-May-17	0%	-144d					
Roadworks at Porti CC111435		aa) Cummanu	102d 07-Jun-16 0d	07-Oct-16	b0		18-Jan-17 A	100%		-84d	Portion 2 Works - Ter	p. Traffic Management (in Stag	es) - Summary	
	Portion 2 Works - Temp. Traffic Management (in Stage	es) - Summary				04-Jul-16 A	18-Jan-17 A			[				
CC111460	Road Construction - Summary		102d 07-Jun-16	07-Oct-16	Od	25-Aug-16 A	18-Jan-17 A	100%		-84d	Road Construction - S			
CC111560	Construct of New Concrete Footpath Pavement and F	Reinstatement of Verge	0d		0d	10-Dec-16 A	18-Jan-17 A	100%			Construct of New Cor	crete Footpath Pavement and I	Reinstatement of Verge	
CC111580	Bitument Pavement Reconstruction		Od		0d	10-Dec-16 A	18-Jan-17 A	100%			Bitument Pavement R	econstruction		
ATUTORY AND	D UTILITIES WORKS		147d 08-Apr-16	03-Oct-16	70d	20-Oct-16 A	29-Jun-17		-42d	-217d				
	and Energization - CLP		91d 08-Apr-16	27-Jul-16	22d	02-Nov-16 A	12-Jun-17		-60d	-258d				
			91d 08-Apr-16	27-Jul-16		02-Nov-16 A	12-Jun-17		-60d					
SW250160	CLP to install HV Switch Boards		91d 08-Apr-16 90d 22-Apr-16	27-Jul-16 20-Jul-16		02-Nov-16 A 02-Nov-16 A	12-Jun-17 14-Feb-17 A		-60d	-258d -170d		c	LF to install HV Switch Boards	
SW250200	CLP to install HV cables		26d 08-Apr-16	09-May-16	0d	10-Jan-17 A	14-Feb-17 A	100%		-229d			LF to install HV cables	
SW250220	Submit WR1 to CLP and CLP inspection		6d 10-May-16	17-May-16		08-Feb-17 A	15-Feb-17 A			-224d			Submit WR1 to CLP and CLP inspection	
SW250240	CLP install energy meter and energize power		6d 21-Jul-16	27-Jul-16	0d	08-Feb-17 A	15-Feb-17 A	100%		-165d			CLP install energy meter and energize power	
SW250260	CLP install Phasor Measurement Units (PMU)		0d		22d	17-May-17	12-Jun-17	0%	-60d					
lumbing - WSD			26d 30-Jun-16	01-Aug-16	47d	01-Apr-17	02-Jun-17		-143d	-246d				
			26d 30-Jun-16 26d 30-Jun-16	01-Aug-16 01-Aug-16	47d 47d		02-Jun-17 02-Jun-17		-143d -143d					
SW251990	WSD Connection to Water Meter Cabinet		0d	or Aug 10	24d		24-Apr-17		-164d				_	
SW252100	Submit Form WW046 Part IV - Request for Inspection	n (Fresh Water Supply)	Od	30-Jun-16	0d		11-May-17	0%	-119d	-212d				
SW252120	WSD inspection and reinspection (Fresh Water Supp	ly)	21d 04-Jul-16	01-Aug-16	15d	12-May-17	02-Jun-17	0%	-119d	-206d				
rainage - DSD			0d		60d	01-May-17	29-Jun-17		-56d					
			0d		60d		29-Jun-17		-56d					
SW254100	Connection by DSD to Terminal Foulwater MH		0d 0d		60d 60d		29-Jun-17 29-Jun-17		-56d -56d					
elecommunicatio			48d 02-Jun-16	10-Aug-16		10-May-17	26-Jun-17		-32d					
			48d 02-Jun-16	10-Aug-16	33d		26-Jun-17		-32d					
SW253100	Handover plant room and cable duct to Telecom Com	nany	48d 02-Jun-16 5d 02-Jun-16	10-Aug-16 08-Jun-16	33d 5d		26-Jun-17 16-May-17		-32d -32d					
SW253120	Telecom. Company to install cable and Equipment	party	43d 10-Jun-16	10-Aug-16		17-May-17	26-Jun-17			-215d				
	relection. Company to install cable and Equipment													
thers			76d 16-Jun-16 76d 16-Jun-16	03-Oct-16 03-Oct-16		20-Oct-16 A 20-Oct-16 A	15-May-17 15-May-17		-36d -36d					
0.11000100		22)	76d 16-Jun-16	03-Oct-16	21d	20-Oct-16 A	15-May-17		-36d	-149d				
SW260100	Registration of Pressure Vessels (Compressed Air / A	ISP)	20d 05-Sep-16	03-Oct-16		20-Oct-16 A	15-May-17		-108d					_
SW260162	Chemical Waste Producer Registration (Plant)		20d 16-Jun-16	14-Jul-16	20d		12-May-17		-35d	-204d				-
	MENT (M.S.) OF E & M INSTALLATION WO	ORKS (INCL. RE-SU	0d			13-May-16 A	05-May-17		240d					
lectrical & Contr	rol Systems		Od Od		67d 67d	08-Jul-16 A 08-Jul-16 A	25-Apr-17 25-Apr-17		250d 250d					
			0d		67d	08-Jul-16 A	25-Apr-17		250d					
MS601500	IC Certifies M.S. for Installation of LV Switchboard and	IMCC	0d		26d	15-Dec-16 A	15-Mar-17	55%	-145d					allation of LV Switchboard
MS602100	IC Certifies M.S. for Installation of Emergency Genset		0d		26d	08-Jul-16 A	15-Mar-17	78%	291d				IC Certifies M.S. for Inst	
MS602700	IC Certifies M.S. for Installation of Cable		0d		26d	27-Aug-16 A	15-Mar-17	82%	-176d				IC Certifies M.S. for Inst	
MS603200	Submit M.S. for Installation of Control system (SCADA	Panel/LCP)	0d		0d		06-Mar-17*	0%	-157d				Submit M.S. for Installation of Control syst	em (SCADA Panel/LCP)
MS603300	IC Certifies M.S. for Installation of Control system (SC	CADA Panel/LCP)	0d		46d	07-Mar-17	21-Apr-17	0%	-157d	-				
MS603600	IC Certifies M.S. for Installation of ELV System		Od		42d	07-Jan-17 A	31-Mar-17	46%	-166d			1 1		IC Certifies M.S. for
MS603900	IC Certifies M.S. for Termination of Fiber Optic Cable		Od		26d	07-Sep-16 A	15-Mar-17	78%	-150d	<b> </b> -			IC Certifies M.S. for Terr	nination of Fiber Optic Cal
MS604700	Submit M.S. for T&C of Above Ground Earthing System	m	Od		Od		10-Mar-17*	0%	-159d				◆ Submit M.S. for T&C of Above Gro	ound Earthing System
MS604800	IC Certifies M.S. for T&C of Above Ground Earthing S		Od		46d		25-Apr-17		-159d					
MS619200	Submit M.S. for Installation of Instrument		Od		00		10-Mar-17*	0%	-151d				◆ Submit M.S. for Installation of Inst	ument
MS619300	IC Certifies M.S. for Installation of Instrument		0d		46d				-151d					
							25-Apr-17							
echanical and P	Piping		00 Dd			08-Nov-16 A 08-Nov-16 A	16-Apr-17 16-Apr-17		-141d -141d					
		Activity		A Baselin							I Milestone	Basolina: Contro	act Programme for The Design and Construction	Page 10 c
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2017 Mar	Apr	May
Sheet Pile, ELS System	and Excavation of Collection Chamb	er 1
	Construction of Co	
		Sheet Pile and ELS for Associated Pipev
		Prim. Sedin
		WSD Connection to Water Meter Cabine
		Submit
		Chem
-	allation of LV Switchboard and MCC	
IC Certifies M.S. for Inst		
r Installation of Control syst		
		1C Certifies M.S. for Installation of Control syst
	IC Certifies M.S. for Installation	n of ELV System
IC Certifies M.S. for Terr	nination of Fiber Optic Cable	
M.S. for T&C of Above Gro	ound Earthing System	
		IC Certifies M.S. for T&C of Above Gro
M.S. for Installation of Inst	ument	
		IC Certifies M.S. for Installation of Inst
nd Construction	Page 10 of 17	print: 01-Mar-17 10:34
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MS612000         S           MS612100         K           MS612400         K           MS612800         K           MS612802         S           MS612804         K           MS616500         S           MS616500         K           MS618520         K	Activity Name Submit M.S. for Installation of Weighbridge C Certifies M.S. for Installation of Weighbridge C Certifies M.S. for Installation of Vehicle Washing System C Certifies M.S. for Installation of Pipe Racks and Supports Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Mechanical Support and Structure Output D.S. for Installation of Mechanical Support and Structure	Duration       Od       Od       Od       Od       Od       Od       Od	Art BL Project Finish	Remaining Duration         Start           58d         08-Nov-16 A           0d         0d	Finish	Activity % T Complete	Fotal Float Va		Feb	2017 Mar
MS612100         IX           MS612400         IX           MS612800         IX           MS612802         S           MS612804         IX           MS616500         S           MS616600         IX           MS618120         IX           MS618520         S	C Certifies M.S. for Installation of Weighbridge C Certifies M.S. for Installation of Vehicle Washing System C Certifies M.S. for Installation of Pipe Racks and Supports Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge Submit M.S. for Installation of Mechanical Support and Structure	0d 0d 0d 0d			16-Apr-17	<b>I</b>		roiect.	leb	IVIAI
MS612100         IX           MS612400         IX           MS612800         IX           MS612802         S           MS612804         IX           MS616500         S           MS616600         IX           MS618120         IX           MS618520         S	C Certifies M.S. for Installation of Weighbridge C Certifies M.S. for Installation of Vehicle Washing System C Certifies M.S. for Installation of Pipe Racks and Supports Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge Submit M.S. for Installation of Mechanical Support and Structure	Od Od Od		Od			-141d			♦ Submit M.S. for Installat
MS612400         IG           MS612800         IG           MS612802         S           MS612804         IG           MS616500         S           MS616600         IG           MS618120         IG           MS618520         S	C Certifies M.S. for Installation of Vehicle Washing System C Certifies M.S. for Installation of Pipe Racks and Supports Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge Submit M.S. for Installation of Mechanical Support and Structure	0d 0d			09-Mar-17*	0%	-143d			Submit M.S. for installat
MS612800         IX           MS612802         S           MS612804         IX           MS616500         S           MS616600         IX           MS618120         IX           MS618520         S	C Certifies M.S. for Installation of Pipe Racks and Supports Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge Submit M.S. for Installation of Mechanical Support and Structure	Od		20d 10-Mar-17	29-Mar-17	0%	-143d		IC Cartifica M.S. for Inc	stallation of Vehicle Washing System
MS612802         S           MS612804         K           MS616500         S           MS616600         K           MS618120         K           MS618520         S	Submit M.S. for Installation of Pipe Bridge C Certifies M.S. for Installation of Pipe Bridge Submit M.S. for Installation of Mechanical Support and Structure			0d 10-Jan-17 A	06-Feb-17 A	100%			TC Certilles M.S. for this	
MS612804 K MS616500 S MS616600 K MS618120 K MS618520 S	C Certifies M.S. for Installation of Pipe Bridge			21d 12-Jan-17 A	10-Mar-17	25%	-166d			IC Certifies M.S. for Ir
MS616500 S MS616600 IC MS618120 IC MS618520 S	Submit M.S. for Installation of Mechanical Support and Structure	0d		0d	10-Mar-17*	0%	-170d			Submit M.S. for Install
MS616600 K MS618120 K MS618520 S		0d		20d 11-Mar-17	30-Mar-17	0%	-170d			
MS618120 K MS618520 S	O O TIME MO (The least light of the share is all O me and an all O measures	0d		0d	10-Mar-17*	0%	-150d			<ul> <li>Submit M.S. for Instal</li> </ul>
MS618520 S	C Certifies M.S. for Installation of Mechanical Support and Structure	0d		30d 11-Mar-17	09-Apr-17	0%	-150d			
	C Certifies M.S. for Installation of Electric Heater	Od		24d 16-Nov-16 A	13-Mar-17	67%	-132d			IC Certifies M.S
MS618540	Submit M.S. for Installation of CHP & ASP Stack	Od		Od	09-Mar-17*	0%	-135d			Submit M.S. for Installat
	C Certifies M.S. for Installation of CHP & ASP Stack	0d		15d 10-Mar-17	24-Mar-17	0%	-135d			
MS619600 IC	C Certifies M.S. for Installation of GRP Tank	Od		0d 08-Nov-16 A	19-Jan-17 A	100%		IC Certifi	s M.S. for Installation of GRPTank	
MS619610 S	Submit M.S. for Installation of Biogas Storage Tank	Od		Od	06-Mar-17*	0%	-120d			Submit M.S. for Installation of
MS619620	C Certifies M.S. for Installation of Biogas Storage Tank	Od		20d 07-Mar-17	26-Mar-17	0%	-120d			
MS619800 S	Submit M.S. for Labeling of Equipment, Valve and Instrument	Od		Od	17-Mar-17*	0%	-156d			Submit N
MS619900 IO	C Certifies M.S. for Labeling of Equipment, Valve and Instrument	Od		30d 18-Mar-17	16-Apr-17	0%	-156d			
Building Services		Od		77d 13-May-16 A	05-May-17		-140d			
		0d		77d 13-May-16 A	05-May-17		-140d			
MS525400 S	Submit M.S. for Installation of MVAC System	0d 0d		77d 13-May-16 A 0d	05-May-17 06-Mar-17*	0%	-140d -131d			Submit M.S. for Installation of
MS525500 I0	C Certifies M.S. for Installation of MVAC System	Od		46d 07-Mar-17	21-Apr-17	0%	-131d			
MS526400 IO	C Certifies M.S. for Installation of Firemen Lift	Od		31d 13-May-16 A	20-Mar-17	72%	-100d			IC
MS526500 S	Submit M.S. for Installation of Lifting Platform	Od		Od	20-Mar-17*	0%	-140d			♦ Su
MS526600 IO	C Certifies M.S. for Installation of Lifting Platform	Od		46d 21-Mar-17	05-May-17	0%	-140d			-
& M INSTALLATIO	ON WORKS	285d 15-Dec-15	30-Nov-16	138d 31-Aug-15 A	07-Aug-17		120d	-200d		
	torage and Feeding System	120d 04-Feb-16	05-Jul-16	130d 28-Feb-17	07-Aug-17		-131d	-324d		
		120d 04-Feb-16 120d 04-Feb-16	05-Jul-16 05-Jul-16	130d 28-Feb-17 130d 28-Feb-17	07-Aug-17 07-Aug-17			-324d -324d		
EM180100 Ir	nstallation of Weighbridge System 1	32d 02-Apr-16	11-May-16	32d 30-Mar-17	12-May-17	0%		-296d		
EM180150 Ir	nstallation of Weighbridge System 2	32d 12-May-16	20-Jun-16	32d 30-Mar-17	12-May-17	0%	-117d	-264d		
EM180250 V	Vaste Recieving System Cable Tray Laying Works	18d 12-May-16	02-Jun-16	90d 06-Apr-17*	27-Jul-17	0%	-131d	-341d		
EM180260 V	Vaste Recieving System Local Control Panel / Switch	Od		75d 27-Apr-17	27-Jul-17	0%	-131d			
EM180300 V	Vaste Recieving System Cabling Works	26d 03-Jun-16	05-Jul-16	75d 10-May-17	07-Aug-17	0%	-131d	-324d		
EM190100 V	/ehicle Washing System	50d 04-Feb-16	09-Apr-16	70d 02-Mar-17	29-May-17	0%	-141d	-336d		
EM190110 B	Bin Handling Machine	Od		60d 28-Feb-17	15-May-17	0%	-134d			
EM190120 H	ligh Jet Water Spray Gun System	Od		18d 22-Apr-17	15-May-17	0%	-129d			
EM190170 V	Vaste Recieving System Pipework (with Supports)	Od		65d 07-Mar-17	27-May-17	0%	-140d			
EM190180 V	Vaste Recieving System Instrumentation and Control	Od		55d 18-Mar-17	27-May-17	0%	-140d			
Pre-Treatment Syste	m	155d 04-Feb-16	15-Aug-16	87d 14-Nov-16 A	07-Jun-17		-61d	-238d		
Pre-Treatment System		155d 04-Feb-16	15-Aug-16	87d 14-Nov-16 A	07-Jun-17			-238d		
EM100150 Ir	nstallation of Reception Hopper 1 and Screw Conveyors 1	155d 04-Feb-16 18d 18-Apr-16	15-Aug-16 09-May-16	87d 14-Nov-16 A 29d 18-Nov-16 A	07-Jun-17 23-Mar-17	90%		-238d -261d		
EM100250 Ir	nstallation of Reception Hopper 2 and Screw Conveyors 2	12d 10-May-16	24-May-16	28d 14-Nov-16 A	22-Mar-17	90%	-107d	-248d		
EM100301 Ir	nstallation of Piston Pump No.1	Od		29d 24-Nov-16 A	27-Mar-17	80%	-146d			
	nstallation of Piston Pump No.2	Od		32d 24-Nov-16 A	27-Mar-17	80%	-6d			
	nstallation of Central Sump Pump	18d 16-Jun-16	07-Jul-16	18d 01-Apr-17*	26-Apr-17	0%		-238d		
	nstallation of Lobe Pump	Od		8d 31-Mar-17	10-Apr-17	0%	-28d			
	nstallation of Macerators	Od		7d 01-Apr-17*	10-Apr-17	0%	-28d			
	nstallation of Int. Suspension Buffer Tank Jet Mixer	Od		7d 01-Apr-17*	10-Apr-17	0%	-28d			
	nstallation of Bollfilter	Od		7d 01-Apr-17*	10-Apr-17	0%	-28d			
	nstallation of Centrifuge Pumps	0d		6d 03-Apr-17	10-Apr-17	0%	-17d			
	nstallation of Vertical Mixer	Od		18d 01-Apr-17*	26-Apr-17	0%	-17d			
	nstallation of Platform (Pre-treatment)	0d 0d		24d 28-Apr-17*	27-May-17	0%	-141d			
EM100364 Ir	nstallation of Control Panels (Pre-treatment)	Ud		49d 28-Feb-17	29-Apr-17	0%	-31d			

# ramme Progress Updated on 17-Feb-17 OSCAR BIOENERGY JV

	Certifies M.S. for Installation of Weighbridge	
of Pipe	Racks and Supports	
ipe Bric	lge	
	C Certifies M.S. for Installation of Pipe Bridge	
lechani	al Support and Structure	
	IC Certifies M.S. for Installation of Mec	hanical Support and Structure
lation o	Electric Heater	
P & AS	PStack	
ertifies	M.S. for Installation of CHP & ASP Stack	
torage	Tank	
C Certi	ies M.S. for Installation of Biogas Storage Tank	
abeling	of Equipment, Valve and Instrument	
	IC Certifies M.S. for Labe	ling of Equipment, Valve and Ir
stem		
		for Installation of MVAC Syste
M.S. fo	Installation of Firemen Lift	
for Ins	allation of Lifting Platform	
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tion of		
	Reception Hopper 1 and Screw Conveyors 1	
on of R	Reception Hopper 1 and Screw Conveyors 1 eception Hopper 2 and Screw Conveyors 2 ation of Piston Pump No.1	
on of R Install	eception Hopper 2 and Screw Conveyors 2	
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on of R Install	eception Hopper 2 and Screw Conveyors 2 ation of Piston Pump No.1 ation of Piston Pump No.2 Installation of Lobe Pump Installation of Macerators Installation of Int. Suspension Buffer Installation of Bollfilter	
on of R Install	eception Hopper 2 and Screw Conveyors 2 ation of Piston Pump No.1 ation of Piston Pump No.2 Installation of Lobe Pump Installation of Macerators Installation of Int. Suspension Buffer Installation of Bollfilter	Tank Jet Mixer
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on of R Install	Page 11 of 17 Print	Tank Jet Mixer ation of Vertical Mixer Installation of Control Panels (I
on of R Install	Page 11 of 17 Print	Tank Jet Mixer ation of Vertical Mixer Installation of Control Panels (I

HKSAR			Organic Waste Treatment Fa						
tivity ID	Activity Name	BL Project BL Project Sta Duration	art BL Project Finish	Remaining Start Duration	Finish	Activity % Complete	Total Float Va	- BL	2017 Feb Mar
EM100600	Installation of Heavy/ Light Fraction Screw No 1	12d 18-May-16	31-May-16	7d 27-Feb-17*	06-Mar-17	0%	-130d	-228d	Installation of Heavy/ Li
EM100650	Installation of Heavy/ Light Fraction Screw No 2	12d 01-Jun-16	15-Jun-16	7d 27-Feb-17	06-Mar-17	0%	-116d	-216d	Installation of Heavy/ Li
EM100660	Installation of Belt Conveyor	0d		14d 20-Mar-17	05-Apr-17	0%	-141d		
EM100670	Installation of Metal Separator No.1	0d		14d 20-Mar-17	05-Apr-17	0%	-141d		
EM100680	Installation of Metal Separator No.2	0d		14d 20-Mar-17	05-Apr-17	0%	-141d		
EM100700	Installation of Overhead Travelling Crane	18d 18-Apr-16	09-May-16	28d 06-Mar-17*	07-Apr-17	0%	-34d	-273d	
EM100720	Installation of Monorail (Crusher Area)	0d		8d 01-Apr-17*	11-Apr-17	0%	-18d		
EM100780	Pre-treatment System Pipework (with Supports and Racks)	0d		27d 16-Mar-17*	20-Apr-17	0%	-111d		
EM100781	Pre-treatment System Instrumentation and Control	0d		14d 31-Mar-17	20-Apr-17	0%	-111d		
EM100782	Installation of Skip Rail Guide	0d		35d 27-Feb-17*	08-Apr-17	0%	-104d		
EM100800	Pre-treatment System Cable Tray Laying Work	92d 04-Feb-16	31-May-16	50d 18-Feb-17	21-Apr-17	0%	-131d	-264d	
EM100810	Pre-treatment System Local Control Panel / Switch	0d		25d 20-Mar-17	21-Apr-17	0%	-131d		
EM100850	Pre-treatment System Cabling Works	100d 16-Mar-16	19-Jul-16	50d 20-Mar-17	23-May-17	0%	-131d	-249d	
EM10095B	Remaining Pre-treatment System Cabling and Building Services Works on 1/F	75d 18-May-16	15-Aug-16	51d 01-Apr-17	07-Jun-17	0%	-61d	-238d	
Installation of Contro	ol Panels	41d 18-Apr-16	06-Jun-16	23d 10-Mar-17	06-Apr-17		-104d	-249d	
EM101040	Installation of MCC Panels at Pre-treatment MCC Room	41d 18-Apr-16	06-Jun-16	23d 10-Mar-17	06-Apr-17	00/		-249d	
		0d	00 1 40	18d 10-Mar-17	30-Mar-17	0%	-104d	0.40.1	
EM101050	Installation of Control and Package Panels at Pre-treatment MCC Room	41d 18-Apr-16	06-Jun-16	23d 10-Mar-17	06-Apr-17		-104d	-249d	
Anaerobic Digestion	on Treatment System	139d 29-Mar-16 133d 06-Apr-16	12-Sep-16 12-Sep-16	85d 28-Nov-16 A 85d 28-Nov-16 A	05-Jun-17 05-Jun-17			-212d -212d	
		133d 06-Apr-16	12-Sep-16	85d 28-Nov-16 A	05-Jun-17			-212d	Installation of Suspension buffer tank Insulation & Cladding
EM100760	Installation of Suspension buffer tank Insulation & Cladding	0d		0d 29-Dec-16 A	27-Jan-17 A	100%			installation or Suspension buffer tank insulation & Cladding
EM100765	Drain all the water out of Suspension buffer tank	0d		10d 09-Mar-17	20-Mar-17	0%	-108d		
EM110120	Drain water out from Tank No.1	0d		16d 25-Jan-17 A	08-Mar-17	46%	-143d		Drain water out from
EM110130	Erect scaffolding and piping and nozzle inside Tank 1	0d		9d 09-Mar-17*	18-Mar-17	0%	-143d		
EM110140	Inspection on Tank 1 and Tank 2	0d		5d 20-Mar-17*	24-Mar-17	0%	-143d		
EM110162	Drain all the water out of AD Tank 2	0d		8d 26-Jan-17 A	25-Feb-17	46%	-151d		Dran all the water out of AD Tank 2
EM110163	Erect scaffolding and piping and nozzle inside Tank 2	0d		11d 27-Feb-17	10-Mar-17	0%	-122d		Erect scaffoldin
EM110165	Transfer water from AD3 to AD 2, AD 2 redo water test	0d		17d 31-Mar-17	24-Apr-17	0%	-143d		
EM110205	Installation of Digester Tank No.3 Insulation & Cladding	0d		16d 18-Jan-17 A	08-Mar-17	51%	-102d		Installation of Diges
EM110206	Erect scaffolding and piping and nozzle inside Tank 3	0d		7d 09-May-17*	16-May-17	0%	-143d		
EM110208	Transfer water from AD 2 to AD 3 for T&C	0d		16d 17-May-17*	05-Jun-17	0%	-140d		
EM110300	Installation of Pumping and Jet Mixing System	18d 03-Aug-16	23-Aug-16	19d 16-Dec-16 A	16-May-17	18%	-143d	-213d	
EM110310	Installation of Heat Exchangers	0d		20d 02-Mar-17*	24-Mar-17	0%	-95d		
EM110320	Installation of Overflow Tanks	Od		32d 18-Mar-17*	28-Apr-17	0%	-132d		
EM110330	Installation of Pressure Relief Valves	0d		42d 02-Mar-17*	24-Apr-17	0%	-128d		
EM110350	Installation of Odour Extraction Ductworks	39d 29-Jul-16	12-Sep-16	39d 02-Mar-17	20-Apr-17	0%	-46d	-176d	
EM110400	Installation of Intermediate Digestate Tank	12d 24-Aug-16	06-Sep-16	12d 30-Mar-17	13-Apr-17	0%	-101d	-178d	
EM110402	Civil Modification Work of Racks and Supports (AD Area - Pipe Rack 1)	Od		0d 28-Nov-16 A	21-Jan-17 A				Civil Modification Work of Racks and Supports (AD Area - Pipe Rack 1)
EM110402A	Installation of Racks and Supports (AD Area - Pipe Rack 1 Modules	Od		9d 10-Jan-17 A	15-Mar-17		-133d		Install
	1,2,4.1,4.2,5.1,5.2,6,7)								
EM110402B	Installation of Racks and Supports (AD Area - Pipe Rack 1 Modules 3,8,9)	Od		22d 07-Mar-17	31-Mar-17		-133d		
EM110402C	Cable Rack and Cable Tray (AD Area - Pipe Rack 1)	0d		36d 24-Feb-17	07-Apr-17		-133d		
EM110405	Civil Modification Work of Racks and Supports (AD Area - Pipe Rack 3)	0d		5d 01-Mar-17	06-Mar-17	0%	-131d		Civil Modification Work
EM110405A	Installation of Racks and Supports (AD Area - Pipe Rack 3)	0d		12d 07-Mar-17	20-Mar-17	0%	-111d		
EM110405B	Cable Rack and Cable Tray (AD Area - Pipe Rack 3)	0d	_	19d 18-Mar-17	10-Apr-17	0%	-111d		
EM110407	Civil Modification Work of Racks and Supports (AD Area - Pipe Rack 4)	0d		4d 11-Mar-17	15-Mar-17	0%	-135d		Civil M
EM110407A	Installation of Racks and Supports (AD Area - Pipe Rack 4)	0d		12d 16-Mar-17	29-Mar-17	0%	-117d		
EM110407B	Cable Rack and Cable Tray (AD Area - Pipe Rack 4)	0d		15d 30-Mar-17	20-Apr-17	0%	-117d		
EM110408	Installation of Monorail (Suspension Buffer Pump Room)	Od	_	0d 24-Jan-17 A	08-Feb-17 A	100%			Installation of Monorail (Suspension Buffer Pump Room)
EM110410	Anaerobic Digestion Treatment System Pipework	Od		55d 17-Feb-17 A	20-May-17	30.38%	-143d		
EM110415	Anaerobic Digestion Treatment System Instrumentation and Control	0d		30d 21-Apr-17	27-May-17	0%	-143d		
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	o17 Activity	/ <b>◊</b>		ne Milestone	Critica	al 🔦	• •		estone Baseline: Contract Programme for The Design and Co

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	Installation of Metal		
		erhead Travelling Crane	eal
			tem Pipework (with Supports
			stem Instrumentation and Con
	Installation of S		
		Pre-treatment S	ystem Cable Tray Laying Wor
	, , , ,		ystem Local Control Panel / S
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	nstallation of MCC Panels at Pr	e-treatment MCC Room	
	Installation of Cont	rol and Package Panels a	t Pre-treatment MCC Room
ater	ut of Suspension buffer tank		
and p	ping and nozzle inside Tank 1		
tion	n Tank 1 and Tank 2		
nozzle	inside Tank 2		
		Transfer v	water from AD3 to AD 2, AD 2
Jatio	ነ & Cladding		
ation	of Heat Exchangers		
		Ins	stallation of Overflow Tanks
		Installation	of Pressure Relief Valves
		Installation of Odd	ur Extraction Ductworks
	Insta	llation of Intermediate Dige	
d Sup	ports (AD Area - Pipe Rack 1 M	lodules 1,2,4.1,4.2,5.1,5.2	,6,7)
	Installation of Racks and Supp	oorts (AD Area - Pipe Racl	k 1 Modules 3,8,9)
	Cable Rack and	Cable Tray (AD Area - Pi	pe Rack 1)
port	(AD Area - Pipe Rack 3)		
Rack	s and Supports (AD Area - Pipe	Rack 3)	
	Cable Rac	k and Cable Tray (AD Area	a - Pipe Rack 3)
of Ra	cks and Supports (AD Area - Pi	pe Rack 4)	
l In	stallation of Racks and Support	(AD Area - Pipe Rack 4)	
		Cable Rack and C	able Tray (AD Area - Pipe R
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	Page 12 of 17	· ·	:: 01-Mar-17 10:34
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ID	Activity Name	BL Project BL Project St Duration	art BL Project Finish	Remaining Duration	Start	Finish		Fotal Float	Variance - BL		Feb	2 Mar
EM110420	Anaerobic Digestion Treatment System Cable Tray Laying Work	92d 06-Apr-16	26-Jul-16	68d	24-Jan-17 A	27-May-17	2.86%	-139d	-247d		1.00	
EM110430	Anaerobic Digestion Treatment System Local Control Panel / Switch	Od		22d	15-Mar-17	10-Apr-17	0%	-122d				
EM110440	Anaerobic Digestion Treatment System Cabling Works	95d 16-May-16	05-Sep-16	45d	06-Apr-17	03-Jun-17	0%	-140d	-217d			
stallation of Contro	ol Panels	39d 29-Mar-16	16-May-16	25d	07-Mar-17	05-Apr-17		-17d	-266d			
EM110490	Installation of MCC Panels at AD MCC Room	39d 29-Mar-16 0d	16-May-16	25d 18d	07-Mar-17 15-Mar-17	05-Apr-17 05-Apr-17	0%	-17d -101d	-266d			
EM110500	Installation of Control and Package Panels at AD MCC Room	39d 29-Mar-16	16-May-16		07-Mar-17	01-Apr-17	0%	-15d	-264d			
	nd Power Generation System	126d 04-Jul-16	30-Nov-16		14-Sep-16 A	06-Jun-17	-,-	-140d				
		126d 04-Jul-16	30-Nov-16		14-Sep-16 A	06-Jun-17		-140d	-148d			
EM120100	Installation of Combine Heat Power System no 1 (Summary)	126d 04-Jul-16 39d 04-Jul-16	30-Nov-16 17-Aug-16		14-Sep-16 A 14-Sep-16 A	06-Jun-17 21-Mar-17	64%	-140d -111d				
EM120150	Installation of Combine Heat Power System no 2 (Summary)	40d 18-Aug-16	05-Oct-16		14-Sep-16 A	21-Mar-17	64%	-111d				
EM120200	Installation of Combine Heat Power System no 3 (Summary)	40d 06-Oct-16	22-Nov-16		14-Sep-16 A	21-Mar-17	64%	-111d	-96d			
EM120220	Installation of Combine Heat Power System Accesories no. 1 to 3	Od			20-Feb-17*	21-Mar-17	0%	-111d				
EM120260	Installation of CHP Stack	Od		26d	06-May-17	06-Jun-17	0%	-140d				
EM120200	Heat Recovery and Power Generation System Pipework	Od		30d	22-Mar-17	29-Apr-17	0%	-111d				
EM120320	Heat Recovery and Power Generation System Instrumentation and Control	Od		10d	19-Apr-17	29-Apr-17 29-Apr-17	0%	-111d				
			00.11									
EM120350	Installation of Continuous Emissions Monitoring System (CEMS)	26d 01-Nov-16	30-Nov-16		22-Mar-17	25-Apr-17	0%	-107d				
EM120400	Heat Recovery and Power Generation System Cable Tray Laying Works	26d 01-Nov-16	30-Nov-16		03-Jan-17 A	28-Feb-17	70%	-104d	-71d			Heat Recovery and Power Ge
EM120410	Heat Recovery and Power Generation System Local Control Panel / Switch	0d		15d	01-Mar-17	17-Mar-17	0%	-104d				
EM120450	Heat Recovery and Power Generation System Cabling Works	39d 17-Oct-16	30-Nov-16	20d	22-Mar-17	18-Apr-17	0%	-107d	-109d			
stallation of Contro	ol Panels	Od Od		23d	16-Mar-17	12-Apr-17		-118d				
EM19011H	Installation of MCC Panels at Heat Recovery & CHP MCC Rooms	Od		23d 18d	16-Mar-17 16-Mar-17	12-Apr-17 06-Apr-17	0%	-118d -113d				
EM19021H	Installation of Control and Package Panels at Heat Recovery & CHP MCC	Od		23d	16-Mar-17	12-Apr-17	0%	-118d				
ogas Cleaning	Rooms and Storage System	43d 01-Sep-16	24-Oct-16	112d	13-Feb-17 A	07-Jul-17		-69d	-206d			
		43d 01-Sep-16	24-Oct-16		13-Feb-17 A	07-Jul-17		-69d	-206d			
EM130200	Installation of Bio Gas Storage Tank	43d 01-Sep-16 26d 01-Sep-16	24-Oct-16 03-Oct-16		13-Feb-17 A 06-Apr-17*	07-Jul-17 15-May-17	0%	-69d -130d	-206d -179d			
EM130350	Biogas Cleaning and Storage System Pipework	31d 15-Sep-16	24-Oct-16	66d	18-Apr-17	07-Jul-17	0%	-78d	-206d			
EM130400	Biogas Cleaning and Storage System Cable Tray Laying Works	39d 01-Sep-16	19-Oct-16	60d	23-Mar-17	09-Jun-17	0%	-45d	-186d			
EM130410	Biogas Cleaning and Storage System Local Control Panel / Switch	Od			13-Feb-17 A	18-Mar-17	0%	-5d	1000			
ogas Distributio		74d 02-Jul-16	27-Sep-16		21-Sep-16 A	24-Jun-17	0,0	-38d	-217d			
Jyas Distributio	JI System	74d 02-Jul-16	27-Sep-16		21-Sep-16 A	24-Jun-17		-38d				
EM130250	Installation of Standby Flaring Gas Unit	74d 02-Jul-16 18d 02-Jul-16	27-Sep-16 22-Jul-16		21-Sep-16 A 21-Sep-16 A	24-Jun-17 08-Apr-17	95%	-38d -137d				
EM130260	Installation of Biogas Blowers	18d 02-Jul-16	22-Jul-16		26-Sep-16 A	08-Apr-17	95%	-103d				
EM130270	Installation of Biogas Cooling and Condensate Removal System	18d 02-Jul-16	22-Jul-16	30d	06-Apr-17	16-May-17	0%	-142d				
EM130272	Civil Modification and New Footings Work of Racks and Supports (Biogas Area		22 001 10		01-Feb-17 A	14-Mar-17	36%	-49d	2400			Civ
	- Pipe Rack 2)											
EM130273	Installation of Racks and Supports (Biogas Area - Pipe Rack 2)	Od		64d	15-Mar-17	05-Jun-17	0%	-49d				
EM130274	Cable Rack and Cable Tray (Biogas Area - Pipe Rack 2)	Od		28d	05-May-17	07-Jun-17	0%	-49d				
EM130275	Biogas Distribution System Pipework	Od		40d	19-Apr-17	07-Jun-17	0%	-142d				
EM130276	Biogas Distribution System Instrumentation and Control	Od			02-May-17	07-Jun-17	0%	-142d				
EM130278	Carbon Filters	Od			23-Sep-16 A	08-Apr-17	92%	-97d				
EM130280	Biogas Distribution System Cable Tray Laying Works	39d 23-Jul-16	06-Sep-16	102d	01-Feb-17 A	24-Jun-17	15%	-38d	-234d			
EM130285	Biogas Distribution System Local Control Panel / Switch	0d		15d	06-Apr-17	26-Apr-17	0%	-38d				
EM130290	Biogas Distribution System Cabling Works	17d 07-Sep-16	27-Sep-16	45d	22-Apr-17	16-Jun-17	0%	-49d	-210d			
stallation of Contro	ol Panels	Od Od		23d 23d	16-Mar-17 16-Mar-17	12-Apr-17 12-Apr-17		-114d -114d				
EM19011G	Installation of MCC Panels at Biogas MCC Rooms	Od		230 18d	16-Mar-17	06-Apr-17	0%	-114d -109d				
EM19021G	Installation of Control and Package Panels at Biogas MCC Rooms	Od		23d	16-Mar-17	12-Apr-17	0%	-114d				
astewater Treat	tment System	110d 04-Feb-16	22-Jun-16	92d :	23-Sep-16 A	13-Jun-17		-75d	-288d			
		94d 26-Feb-16	22-Jun-16	92d 2	23-Sep-16 A	13-Jun-17		-75d	-288d			
EM140100	Installation of Pumping System and associated pipework	94d 26-Feb-16 40d 26-Feb-16	22-Jun-16 16-Apr-16		23-Sep-16 A 03-Mar-17	13-Jun-17 12-Jun-17	0%	-75d -145d				
EM140150	Installation of Aeration System (SBR)	24d 18-Apr-16	17-May-16		08-Feb-17 A	07-Mar-17	37.5%	-114d				Installation of Aer
EM140200	Installation of Odour Containment System (GRP Cover for WWTP)	26d 18-May-16	17-Jun-16		08-Mar-17	19-Apr-17	0%		-248d			
		10 May 10		000			570		2 100			
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	Anaerobic	Digestion Treatment Syste	m Local Control Panel / Switcl
	Installation of MCC P	anels at AD MCC Room	
	Installation of Control and Pa	uckage Papels at AD MCC	Poom
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on of Cor	hbine Heat Power System no 1 (	Summary)	
	nbine Heat Power System no 2 (		
	the Heat Power System no 3 (		
	bine Heat Power System Acces		
			Heat Recovery and Power Ge
			Heat Recovery and Power Ge
		Installat	on of Continuous Emissions N
	Laying Works	In the set of the set	
and Pow	er Generation System Local Con	trol Panel / Switch	
		Heat Recovery and F	ower Generation System Cab
	Installation of MCC	Panels at Heat Recovery	& CHP MCC Rooms
	Installa	tion of Control and Packa	e Panels at Heat Recovery &
	:		
ng and S	orage System Local Control Par	nel / Switch	
	Installation of S	standby Flaring Gas Unit	
	Installation of B	liogas Blowers	
New Fo	tings Work of Racks and Supp	orts (Biogas Area - Pipe R	ack 2)
			!
	Carbon Filters		
		Biogas	Distribution System Local Co
	Installation of MCC	Panels at Biogas MCC R	ooms
	Installa	tion of Control and Packag	e Panels at Biogas MCC Roo
 R)			
·,			Containment System (GRP 0
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HKSAR			Org	anic W	aste Trea	atment F	acilities	s Pha	se 1					
/ ID	Activity Name	BL Project BL Project St Duration		Remaining Duration	Start	Finish					I		2017	
EM140250	Installation of Odour Extraction Ductwork (for WWTP)	21d 28-May-16	22-Jun-16	21d		05-May-17	0%	-114d	Project -256d		Feb		Mar	
EM140300	Installation of Ammonia Stripping Plant	51d 14-Apr-16	15-Jun-16	250	23-Sep-16 A	18-Mar-17	61%	-111d	-227d				Installation of Ammonia	Stripping Plant
EM140330	Wastewater Treatment System Pipework	Od		74d	07-Mar-17	08-Jun-17	0%	-142d						
	Wastewater Treatment System Instrumentation and Control	00		37d	I 24-Apr-17	08-Jun-17	0%	-142c					ļ	
	Installation of ASP Stack	0d			06-May-17	06-Jun-17	0%							
	Diesel Tank Installation (ASP)													
	. ,	b0			17-May-17	13-Jun-17	0%				_	_		
	Wastewater Treatment System Cable Tray Laying Works	21d 18-Apr-16	12-May-16		15-Feb-17 A	29-Apr-17	5%	-520			_			
	Wastewater Treatment System Local Control Panel / Switch	Od			24-Mar-17	29-Apr-17	0%	-520						i
	Wastewater Treatment System Cabling Works	26d 13-May-16	14-Jun-16	40d	24-Mar-17	16-May-17	0%	-520						
Installation of Control F	Panels	41d 04-Feb-16 41d 04-Feb-16	29-Mar-16 29-Mar-16		31-Mar-17 31-Mar-17	04-May-17 04-May-17		-56d -56d						
EM170240	Installation of MCC Panels at WWTP MCC Room	Od		180		25-Apr-17	0%					_		
EM170250	Installation of Control and Package Panels at WWTP MCC Room	41d 04-Feb-16	29-Mar-16	24d	i 31-Mar-17	04-May-17	0%	-560	-324d					
Composting System	1	144d 24-May-16	12-Nov-16	91d	28-Sep-16 A	12-Jun-17		-650	-168d					
Installation of Tunnel C	composting 1 to 6	51d 22-Aug-16	22-Oct-16		01-Dec-16A	06-May-17 06-May-17		-1260						
EM160150	Installation of Water Spraying System / Pipework	51d 22-Aug-16 51d 22-Aug-16	22-Oct-16 22-Oct-16		01-Dec-16 A 01-Dec-16 A	06-May-17 06-May-17	38%	-126d -137d					:	
EM160160	Installation of Composting Pipework Instrumentation and Control	0d		220	I 06-Apr-17	06-May-17	0%	-1260						
	Installation of Tunnel Doors	Od		24d	22-Mar-17*	22-Apr-17	0%	-137d						
	Installation of Heat Exchanger, High Pressure Fans, Hot Water Pumps	Od			13-Dec-16 A	11-Mar-17	62%	-950					Installation of Heat Exchanger, High	Pressure Fans, Hot Water
Installation of Leachate		18d 24-Oct-16	12-Nov-16		24-Apr-17	20-May-17	52.73	-137d				1		
		18d 24-Oct-16	12-Nov-16	22d	24-Apr-17	20-May-17		-137d	-150d					
EM160200	Installation of Leachate Treatment System / Pipework	18d 24-Oct-16	12-Nov-16	12d	05-May-17	18-May-17	0%	-1350	-148d					
EM160205	Installation of Leachate Treatment System Instrumentation and Control	Dd		200	24-Apr-17	18-May-17	0%	-1350				_		
EM160210	Leachate Pump Chamber, Pump Installation	Od		18d	28-Apr-17	20-May-17	0%	-137d						
Installation of Maturation	on Area	93d 24-May-16	10-Sep-16		28-Sep-16 A	12-Jun-17		-650						
EM160250	Installation of Air Extraction System / Ductwork (Maturation Area)	93d 24-May-16 18d 22-Aug-16	10-Sep-16 10-Sep-16		28-Sep-16 A 20-Mar-17	12-Jun-17 12-Jun-17	0%	-65d						1
	Installation of Mixing Unit	2d 24-May-16	25-May-16		1 01-Apr-17*	21-Apr-17	0%	-115d						-
	Maturation Area Cable Tray Laving Works	9d 26-May-16	-		· · · · · ·			-1150	-203d					
			04-Jun-16		28-Sep-16 A	07-Feb-17 A	100%				Maturation Area	a Cable Tray Laying Wo		
EM160460	Maturation Area Local Control Panel / Switch	Od		150	13-Feb-17 A	07-Mar-17	25%	-41c				-	Maturation Area Local Control Panel / Swite	с <b>р</b>
EM160500	Maturation Area Cabling Works	12d 06-Jun-16	20-Jun-16	60d	27-Feb-17*	13-May-17	0%	-41c	-265d					1
Installation of Structura	ant Storage Area	44d 24-May-16 44d 24-May-16	15-Jul-16 15-Jul-16	62d	20-Mar-17 20-Mar-17	07-Jun-17 07-Jun-17		-139d -139d						
EM160550	Installation of Air Extraction System / Ductwork (Structurant Storage Area)	26d 24-May-16	23-Jun-16		20-Mar-17*	13-May-17	0%							
EM160650	Structurant Storage Arera Cable Tray Laying Works	12d 24-Jun-16	08-Jul-16	36d	06-Apr-17	23-May-17	0%	-1390	-258d					
	Structurant Storage Arera Local Control Panel / Switch	Od		12d	10-May-17	23-May-17	0%	-139d						
	Structurant Storage Arera Cabling Works	12d 02-Jul-16	15-Jul-16		10-May-17	07-Jun-17	0%							
Installation of Digestate		60d 16-Jul-16	24-Sep-16		28-Sep-16 A	07-Jun-17	070		-204d					
		60d 16-Jul-16	24-Sep-16	87d	28-Sep-16 A	07-Jun-17		-610	-204d					
	Installation of Monorail (Dewatering)	Od		19d	27-Dec-16 A	11-Mar-17	66%						Installation of Monorail (Dewatering)	)
	Installation of Centrifuges	9d 16-Jul-16	26-Jul-16	23d	21-Feb-17*	18-Mar-17	0%	-1300	-193d				Installation of Centrifug	
	Installation of Platform (Dewatering Area)	0d		200	16-Mar-17	08-Apr-17	0%	-140d				-		Installatio
EM160758	Installation of Sandfilter	0d		11d	10-Apr-17	25-Apr-17	0%	-1330						
EM160759	Installation of Break Tank	0d		11d	10-Apr-17	25-Apr-17	0%	-1330						
EM160760	Installation of Polymer Storage Tank	Od		24d	01-Apr-17	05-May-17	0%	-141c						
EM160764	Installation of Polymer Feed Pumps	Od		260	20-Mar-17	22-Apr-17	0%	-130c						
EM160770	Installation of Polymer Mixing Unit	Od		220	i 24-Apr-17	20-May-17	0%	-600						
EM160780	Installation of Anti-Foaming and Anti-Scalant System	Od		22d	24-Apr-17	20-May-17	0%	-47c						
EM160800	Installation of Centrate Discharge Pumps	9d 27-Jul-16	05-Aug-16	200	06-May-17	29-May-17	0%	-140d	-239d					
	Installation of Bollfilter	Od			06-May-17	26-May-17	0%							
	Installation of CenrtrateTank	4d 17-Aug-16	20-Aug-16	18d		05-May-17	0%							
	Installation of Sieve Plastic Drum	0d			1 09-May-17	12-May-17	0%							
		00					0%							
	Digestate Dewatering System Pipework (with Supports)			450		31-May-17								
	Digestate Dewatering System Instrumentation and Control	Od			24-Apr-17	31-May-17	0%					-		
EM161000	Digestate Dewatering System Cable Tray Laying Work	43d 22-Jul-16	09-Sep-16	17d	28-Sep-16 A	09-Mar-17	73%	-81d	-146d				Digestate Dewatering System Cable Tr	ay Laying Work
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th Rolling Program	me Progress		<b>n 17-Feb-17</b> Ar bioenergy JV
2017	1		
Mar	Apr		May Installation of Odou
Justellation of Assession	Ouring is a Direct		Installation of Odou
Installation of Ammonia	Stripping Plant		
			Wastewater Treatment System
			Wastewater Treatment System
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		Installat	on of MCC Panels at WWTP N
			Installation of Control
			Inciolletion of March
			Installation of Wai
	-	Installation of	I unnel Doors
Installation of Heat Exchanger, High	Pressure Fans, Hot Water Pum	ps	
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		la stalla d'ana a f M	
		Installation of M	ixing Unit
Maturation Area Local Control Panel / Switc	h 		
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Installation of Monorail (Dewatering)			
Installation of Centrifug			
	Installation of F	latform (Dewatering Area	
		Installat	on of Sandfilter
		Installat	on of Break Tank
			Installation of Polym
		Installation of	Polymer Feed Pumps
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Digestate Dewatering System Cable Tra	y Laying Work		
Design and Construction	Dago 14 of 17	nrin	:: 01-Mar-17 10:34
	Page 14 of 17		Dracle Corporation

SAR			. 0	anic Waste Tre	atment F					3-Month Rolling Programme Pro
)	Activity Name	BL Project BL Project	Start BL Project Finish	Remaining Start Duration	Finish	Activity % Complete	Total Float	Variance - BL	Feb	2017 Mar
EM161010	Digestate Dewatering System Local Control Panel / Switch	0d		20d 22-Feb-17	16-Mar-17	0%	-59d	Project		Digestate Dewatering System Local Contr
EM161050	Digestate Dewatering System Cabling Works	43d 05-Aug-16	24-Sep-16	45d 10-Apr-17	07-Jun-17	0%	-123d	-204d		
tallation of Contro	ol Panels	39d 24-May-16 39d 24-May-16	09-Jul-16 09-Jul-16	26d 11-Jan-17 A 26d 11-Jan-17 A	20-Mar-17 20-Mar-17		-97d -97d			
EM161140	Installaton of MCC Panels at Composting MCC Rooms	0d	03-34-10	21d 11-Jan-17 A	15-Mar-17	56%	-102d			Installaton of MCC Panels at Composting M
M161150	Installaton of Control and Package Panels at Composting MCC Rooms	39d 24-May-16	09-Jul-16	0d 11-Jan-17 A	17-Jan-17 A	100%		-158d	Installaton of Control and Package Panels at Composting MCC Rooms	3
M161155	Installaton of MCC Panels at Dewatering MCC Rooms	0d		26d 12-Jan-17 A	20-Mar-17	56%	-97d			Installaton of MCC Panels at Dewa
M161160	Installaton of Control and Package Panels at Dewatering MCC Rooms	0d		26d 12-Jan-17 A	20-Mar-17	56%	-97d			Installaton of Control and Package
ntralized Air Pe	ollution Control System	108d 18-Apr-16	25-Aug-16	97d 28-Nov-16 A	19-Jun-17		-55d	-239d		
		108d 18-Apr-16	25-Aug-16	97d 28-Nov-16 A	19-Jun-17		-55d			
M150100	Installation of Chemical Scrubber in Building 1	108d 18-Apr-16 26d 18-Apr-16	25-Aug-16 19-May-16	97d 28-Nov-16 A 46d 20-Dec-16 A	19-Jun-17 13-Apr-17		-55d -132d			
M150150	Installation of Dosing Pumps and associated pipeworks in Building 1	26d 28-Apr-16	30-May-16	20d 30-Mar-17	26-Apr-17	0%	-130d	-269d		
M150200	Installation of Activated Carbon Filter in Building 1	26d 31-May-16	30-Jun-16	46d 20-Dec-16 A	13-Apr-17		-110d	-235d		
M150250	Installation of Odour Extraction Duct Work, Associated Accessories and Stack	77d 26-May-16	25-Aug-16	62d 25-Feb-17	15-May-17		-132d			
M150260	Unit in Building 1	0d		21d 19-Apr-17			-132d			
M150260 M150300	Installation of CAPCS Instrumentation and Control in Building 1 Installation of Chemical Day Tanks and Water Tank in Building 1	26d 31-May-16	30-Jun-16	21d 19-Apr-17 20d 18-Apr-17	15-May-17		-132d			
M150300 M150305	Air Extraction Fans in Building 1	26d 31-May-16	30-Jun-16	20d 18-Apr-17 57d 20-Dec-16 A	12-May-17		-130d -121d			
M150305	Air Extraction Fans in Building 1 Installation of Odour Extraction Duct Work & Associated Accessories in	0d 0d		44d 28-Nov-16 A	29-Apr-17		-121d			
	Building 2				11-Apr-17					
M150317	Installation of CAPCS Instrumentation and Control in Building 2	0d		30d 07-Mar-17	11-Apr-17		-108d			
M150320	Installation of Odour Extraction Duct Work & Associated Accessories in AD Tank Area	0d		40d 02-Mar-17	21-Apr-17	0%	-142d			
M150330	Installation of CAPCS Instrumentation and Control in AD Tank Area	0d		20d 25-Mar-17	21-Apr-17	0%	-8d			
M150350	Cable Tray Laying Works (CAPCS - Building 1 & AD Area)	34d 20-May-16	29-Jun-16	35d 22-Apr-17	05-Jun-17	0%	-142d			
M150360	Lcoal Control Panel / Switch (CAPCS - Building 1 & AD Area)	0d		25d 06-May-17	05-Jun-17	0%	-136d			
M150400	Cabling Works (CAPCS - Building 1 & AD Area)	26d 30-Jun-16	30-Jul-16	35d 09-May-17	19-Jun-17	0%	-142d	-261d		
M150410	Cable Tray Laying Works (CAPCS - Building 2)	0d		35d 16-Mar-17	29-Apr-17	0%	-143d			
M150420	Lcoal Control Panel / Switch (CAPCS - Building 2)	0d		25d 28-Mar-17	29-Apr-17	0%	-143d			
M150430	Cabling Works (CAPCS - Building 2)	0d		35d 23-Mar-17	09-May-17	0%	-143d			
allation of Contro	ol Panels	42d 07-Jun-16 42d 07-Jun-16	27-Jul-16 27-Jul-16	23d 20-Mar-17 23d 20-Mar-17	19-Apr-17 19-Apr-17		-22d -22d			
M150490	Installation of MCC Panels at CAPCS MCC Room	Od	27 001 10	18d 20-Mar-17	10-Apr-17	0%	-112d			
M150500	Installation of Control and Package Panels at CAPCS MCC Room	42d 07-Jun-16	27-Jul-16	23d 20-Mar-17	19-Apr-17	0%	-22d	-215d		
ess Utilities (	(Compressed Air, Process Water, Process Clean Water)	0d		71d 28-Feb-17	27-May-17		179d			
		0d 0d		71d 28-Feb-17 71d 28-Feb-17	27-May-17 27-May-17		179d 179d			
M210150	Installation of Compressed Air System	0d		54d 09-Mar-17	17-May-17	0%	-137d			
M210160	Air Compressor Installation in Building 1	0d		41d 16-Mar-17	09-May-17	0%	-143d			
M210170	Compressed Air Pipework (All Buildings)	0d		45d 30-Mar-17	27-May-17	0%	-143d			
W210180	Compressed Air Instrumentation and Control (All Buildings)	0d		32d 19-Apr-17	27-May-17	0%	-143d			
M210200	Installation of Process Water System	0d		20d 16-Mar-17	08-Apr-17	0%	216d			
M210210	Process Water Pump Installation in Building 1 Pre-treatment Plant	0d		20d 28-Feb-17	22-Mar-17	0%	-114d			Process Water Pump Installat
W210220	Process Water Pipework Installation (All Buildings)	0d		24d 23-Mar-17	24-Apr-17	0%	-114d			
W210230	Process Water Instrumentation and Control Installation (All Buildings)	0d		15d 03-Apr-17	24-Apr-17	0%	-114d			
W210250	Installation of Process Clean Water System	0d		24d 01-Apr-17	05-May-17	0%	-124d			
M210260	Process Clean Water Pump Installation in Building 1	0d		24d 18-Apr-17*	17-May-17	0%	-134d			
M210270	Process Clean Water Pipework Installation (All Buildings)	0d		45d 20-Mar-17	17-May-17	0%	-134d			
M210280	Process Clean Water Instrumentation and Control Installation (All Buildings)	0d		23d 19-Apr-17	17-May-17	0%	188d			
M210300	Process Utilities Cable Tray Laying Works	0d		50d 16-Mar-17	19-May-17	0%	-134d			
M210310	Process Utilities Local Control Panel / Switch	0d		10d 09-May-17	19-May-17	0%	-134d			
M210350	Process Utilities Cabling Works	0d		40d 05-Apr-17	26-May-17	0%	-134d			
Water Systen	m	39d 29-Aug-16	15-Oct-16	79d 01-Mar-17	08-Jun-17		170d	-189d		
		39d 29-Aug-16	15-Oct-16	79d 01-Mar-17	08-Jun-17		170d	-189d		
M120300	Installation of Electric Boiler / Heater	39d 29-Aug-16 39d 29-Aug-16	15-Oct-16 15-Oct-16	79d 01-Mar-17 15d 14-Mar-17*	08-Jun-17 30-Mar-17		170d -107d			Installation of E
M210100	Installation of Hot Water Pumps	0d		22d 01-Mar-17	25-Mar-17	0%	-118d			Installation of Hot Water
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	b17 Activity			ne Milestone	Critica			Actu		amme for The Design and Construction Page

th Rolling Program	me Progress		<b>n 17-Feb-17</b> Ar bioenergy jv
2017			
Mar Digestate Dowetering System	Apr		May
Digestate Dewatering Syste	ém Local Control Panel / Switch		
Installaton of MCC Panels at	Composting MCC Rooms		
Installaton of MCC I	Panels at Dewatering MCC Roor	ns	
· · · · · · · · · · · · · · · · · · ·	ol and Package Panels at Dewa		
Installaton of Control	ui anu Fackaye Faneis al Dewa	lering wice Rooms	
	Insta	lation of Chemical Scrubb	er in Building 1
	i	<u></u>	
		Instal	ation of Dosing Pumps and ass
	Insta	lation of Activated Carbor	Filter in Building 1
			····· 3
			Install
	;		Air Extraction Fans in Building
	Installatio	n of Odour Extraction Du	nt Work & Associated Accesso
	installatio		ct Work & Associated Accesso
	Installatio	n of CAPCS Instrumentat	on and Control in Building 2
		Installation of O	dour Extraction Duct Work & A
	;	Installation of C	APCS Instrumentation and Cor
			Cable Tray Laying Works (CAP
			anal Cantral Danal / Switch (C
			Lcoal Control Panel / Switch (C
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	Installation	of MCC Panels at CAPCS	MCC Room
		Installation of Contr	ol and Package Panels at CAP
	i		
			Air Compres
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	Installation of F	Process Water System	
Process Water	Pump Installation in Building 1 P	re-treatment Plant	
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	!	Process	Vater Pipework Installation (All
		Process	Vater Instrumentation and Con
			Installation of Proce
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	Installation of Electric Deiler (11)	ator	
	Installation of Electric Boiler / He	alei	
Installatio	of Hot Water Pumps		
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KSAR	ction Department		0	Contract No			a Dhaas 1	3-Month Rolli
ID	Activity Name	BL Project BL Project Sta		Remaining Start	atment F	Activity % Complete	Total Float Variance	
EM210105	Installation of Hot Water Piping	BL Project BL Project Sta Duration 0d	art BL Project Finish	Duration 30d 15-Mar-17	22-Apr-17	Complete 0%	- BL Project	Feb Ma
EM210107	Installation of Hot Water Instrumentation and Control	b0		16d 31-Mar-17	22-Apr-17	0%	-107d	
EM210110	Installation of Hot Water System Insulation & Cladding	bd		32d 29-Apr-17	08-Jun-17	0%	170d	
EM210115 EM210120	Installation of Break Tank Installation of Magnetic Filter	b0		40d 16-Mar-17	08-May-17	0%	-118d -130d	
		Od		28d 01-Mar-17	01-Apr-17	0%		
EM210130	Installation of Soft Water System	0d	04 4.00 40	48d 16-Mar-17* 112d 24-Jun-16 A	17-May-17	0%	-143d	
uilding Services Building #1 (Waste I	Receiving, Pre-treatment & Admin. Building)	90d 18-Apr-16 0d	04-Aug-16	69d 01-Dec-16 A	07-Jul-17 13-Jun-17		-27d -272d -42d	
EMBS1100	Building #1 MVAC System	0d 0d		69d 01-Dec-16 A 67d 20-Mar-17	13-Jun-17 13-Jun-17	0%	-42d -85d	
LINDOTTOD		U.			10 built fr	0,0	000	
EMBS1150	Building #1 Fire Services System	0d		47d 01-Dec-16 A	17-May-17	32%	-63d	
51 150 1000								
EMBS1200	Building #1 Plumbing & Drainage System / Solar Hot Water System	Od		30d 30-Mar-17	10-May-17	0%	-142d	
EMBS1250	Building #1 BS Installation of Central Control Room at M/F Grid 11-13/M-N	0d		50d 06-Apr-17	09-Jun-17	0%	-143d	
EMBS1300	Building #1 Lighting and Electrical Installation	0d		60d 13-Feb-17 A	13-Jun-17	33.33%	-42d	
Building #1 (Adminis	stration Offices & Visitor Areas)	90d 18-Apr-16 90d 18-Apr-16	04-Aug-16 04-Aug-16	109d 26-Oct-16 A 109d 26-Oct-16 A	07-Jul-17 07-Jul-17		-105d -272d -105d -272d	
EM17010B	Building Service Installation of Adminstration Offices	37d 18-Apr-16	01-Jun-16	76d 26-Oct-16 A	07-Jui-17 01-Jun-17	46%	-1050 -2720 -136d -295d	
EM17012B	Lift Installation of Adminstration Offices, incl. testing	60d 25-May-16	04-Aug-16	86d 22-Feb-17	09-Jun-17	0%	-82d -249d	
EM170150	Visitor and Educational Centre	40d 02-Jun-16	20-Jul-16	81d 27-Mar-17	07-Jul-17	0%	-105d -285d	
Building #2 (Compos	sting & Maturation Building)	0d 0d		64d 24-Jun-16 A 64d 24-Jun-16 A	10-May-17 10-May-17		-49d -49d	
EMBS2000	Building #2 MVAC System	0d		31d 08-Aug-16 A	10-May-17	68%	-49d	
EMBS2050	Building #2 Fire Services System	0d		23d 24-Jun-16 A	12-Apr-17	60.45%	-67d	
EMBS2100	Building #2 Plumbing & Drainage System	0d		34d 26-Jul-16 A	01-Apr-17	75%	-115d	
EMBS2150	Building #2 Lighting and Electrical Installation	0d		50d 07-Nov-16 A	21-Apr-17	56%	-49d	
Building #3 (Energy	Centre)	0d 0d		70d 20-Sep-16 A	17-May-17 17-May-17		15d 15d	
EMBS3000	Building #3 MVAC System	0d 0d		70d 20-Sep-16 A 23d 21-Sep-16 A	10-May-17	55%	-49d	
EMBS3050	Building #3 Fire Services System	Od		60d 20-Sep-16 A	05-May-17	55%	-82d	
EMBS3100	Building #3 Plumbing & Drainage System	0d		42d 28-Nov-16 A	12-Apr-17	52%	-123d	
EMBS3150	Building #3 Lighting and Electrical Installation	Od		70d 12-Dec-16 A	17-May-17	30%	15d	
Anaerobic Digesters	s Area	Od		87d 11-Jan-17 A	07-Jun-17		-28d	
EMBS4000	Anaerobic Digesters Area MVAC System	0d 0d		87d 11-Jan-17 A 45d 10-Apr-17	07-Jun-17 07-Jun-17	0%	-28d -72d	
EMBS4050	Anaerobic Digesters Area Fire Services System	Od		45d 06-Mar-17	02-May-17	0%	-43d	
EMBS4100	Anaerobic Digesters Area Plumbing & Drainage System	0d		35d 20-Mar-17*	05-May-17	0%	-138d	
EMBS6060	Anaerobic Digesters Area Lighting & Electrical System	0d		50d 11-Jan-17 A	21-Apr-17	22%	9d	
	Storage Tank, Desulphurization/Biogas Plant Rm., Desulphurization Tank	Od		77d 24-Mar-17	29-Jun-17		-47d	
		0d		77d 24-Mar-17	29-Jun-17		-47d	
EMBS5000	Biogas Area MVAC System	b0		30d 29-Apr-17	06-Jun-17	0%	-71d	
EMBS5050	Biogas Area Fire Services System	b0		21d 24-Mar-17	21-Apr-17	0%	-128d	
EMBS5100	Biogas Area Plumbing & Drainage System	b0		21d 24-Mar-17	21-Apr-17	0%	-128d	
EMBS6070	Biogas Area Lighting & Electrical System	Od	00.0	50d 29-Apr-17	29-Jun-17	0%	-47d	
eneral Transformer Room	(by OSCAR)	212d 15-Dec-15 0d	02-Sep-16	96d 31-Aug-15 A 0d 01-Dec-16 A	17-Jun-17 06-Feb-17 A		-37d -231d	
		0d		0d 01-Dec-16 A	06-Feb-17 A			Building services installation in Transformer Room
EM190600	Building services installation in Transformer Room	Od		0d 07-Dec-16 A	27-Jan-17 A	100%		
EM190620	Install 11kV / 380V Transformers and cables	0d		0d 01-Dec-16 A	06-Feb-17 A	100%		Install 11kV / 380V Transformers and cables
EM190640	11kV Switchgear and cables Installation	0d		0d 01-Dec-16 A	06-Feb-17 A	100%		11kV Switchgear ard cables Installation
electrical, Instrumer	ntation & Control	212d 15-Dec-15	02-Sep-16	96d 31-Aug-15 A	17-Jun-17		-37d -231d	
EM190150	Instrumentation, Control & Monitoring System (SCADA/PLC)	212d 15-Dec-15 103d 18-Apr-16	02-Sep-16 19-Aug-16	96d 31-Aug-15 A 47d 23-Mar-17	17-Jun-17 23-May-17	0%	-37d -231d -129d -222d	
EM19021B	Installation of Main LV Switch Board	100d 18-Apr-16	16-Aug-16	3d 20-Dec-16 A	21-Feb-17	90.63%	-112d -153d	Installation of Main LV Switch Board
EM190220	Cabling works (from Main LVSB to Building 1 MCC)	0d		29d 01-Apr-17	11-May-17	0%	-145d	
EM190221	Cabling works (from Main LVSB to Building 2 MCC)	0d		38d 24-Feb-17	10-Apr-17	0%	-112d	
EM190222	Cabling works (from Main LVSB to Building 3 MCC)	Od		22d 17-Mar-17	12-Apr-17		-113d	
-					T. 11			
.4_up_17Fel	b17 Ac	tivity 🔷	🔷 Baselir	ne Milestone	Critica	al 🔇	Actual	I Milestone Baseline: Contract Programme for The Design and

m	me Progress	Upd		<b>n 17-Feb-17</b> Ar bioenergy jv
	Apr			May
	, ibi		Installation of	Hot Water Piping
			Installation of	Hot Water Instrumentation and
	1			Installation of
	Installation of Magnetic Filter			
	1			
	1			Building #1
	) 			
				Building #2
	Building	#2 Fire S	ervices System	
	Building #2 Plumbing & Drain	age Syste	em	
			Building #2 Ligh	ting and Electrical Installation
				Building #3
	- 			Building #3
				Building #3 Fire Ser
	Building	#3 Plumb	oing & Drainage	System
				Anaerobic Digesters Area
	1			Anaerobic Digester:
			Anaerobic Dige	ters Area Lighting & Electrical
			_	
			Biogas Area Fire	e Services System
			ыoyas Area Plu	mbing & Drainage System
				0.17
				Cabling
			Main LVSB to B	
	Cabling	works (fr	om Main LVSB t	o Building 3 MCC)
				. 04 May 47 40 04
	Page 16 of 17			:: 01-Mar-17 10:34
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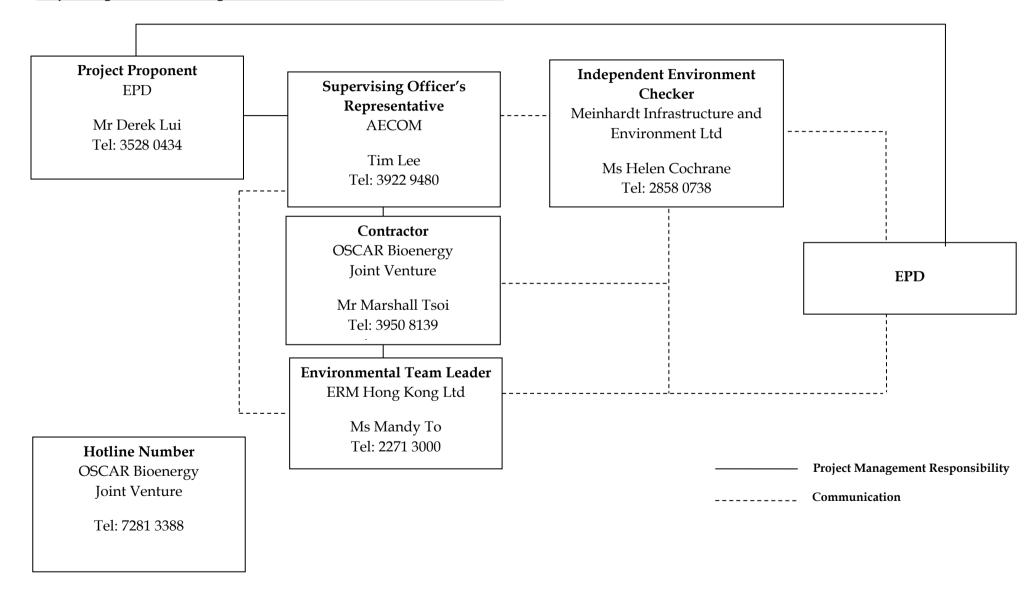
		ction Department			Co	ntract N	o. EP/SP/	61/10					3-Month Rolling Progran
oi the	e HKSAR			Org	anic W	aste Tre	atment F	acilities	Phas	e 1			
# Acti	tivity ID	Activity Name	BL Project BL Project S Duration	Start BL Project Finish	Remaining Duration	Start	Finish	Activity % T Complete	Total Float	- BL	F		2017 Mar
910	EM19022B	Cables and Accessories, Cable Containment System Installation	115d 18-Apr-16	02-Sep-16	94d	09-Jan-17 A	17-Jun-17	16%	-37d	Project -231d			
911	EM19023B	Earthing and Lightning System Installation	210d 15-Dec-15	31-Aug-16	48d	31-Aug-15 A	08-May-17	73%	-124d	-198d			
912	EM19024B	Emergency Genset Installation	30d 08-Jul-16	11-Aug-16	2d	19-Dec-16 A	28-Mar-17	97.14%	-19d	-187d			E
913	EM19024D	Diesel Tank Installation (Genset)	Od		2d	17-Feb-17 A	20-Feb-17	90%	-17d			Diesel Tank	In stallation (Genset)
914	EM19024P	Diesel Tank Pipework (Genset)	Od		30d	01-Mar-17	05-Apr-17	0%	-24d				
915	EM19024T	Diesel Tank Pipework Instrumentation and Control (Genset)	Od		10d	24-Mar-17	05-Apr-17	0%	-24d				
916	EM19025B	Equipment at Gate House	12d 11-May-16	25-May-16	12d	18-Apr-17	02-May-17	0%	1d	-277d			
917	EM19030B	ELV System Installation	60d 22-Jun-16	31-Aug-16	50d	01-Apr-17	06-Jun-17	0%	-137d	-223d			
918 919	General		Od Od		66d 66d		23-May-17 23-May-17		-16d -16d				
920	EM19055B	Civil Modification Work of Pipe Crossing 1 & 2	Od		12d		29-Mar-17	0%	-135d				
921	EM19065B	Installation of Pipe Crossing 1 & 2	Od		35d	31-Mar-17	17-May-17	0%	-140d				
922	EM19075B	Cabe Rack and Cable Tray Installation of Pipe Crossing 1 & 2	Od		23d	24-Apr-17	22-May-17	0%	-140d				
923	EM200060	Lifting Appliances, Monorail	Od		45d	16-Mar-17	13-May-17	0%	-8d				
924	EM200070	Roller Shutters (Local)	Od		45d	01-Mar-17*	26-Apr-17	0%	5d				
925	EM200080	Roller Shutters (UK)	Od		45d	25-Mar-17	23-May-17	0%	-136d				
926	Energisation of S	witchboards with Site Acceptance Test (SAT)	1d 28-Jul-16	28-Jul-16		02-Feb-17 A	02-Jun-17		-69d	-249d			
927 928			1d 28-Jul-16 1d 28-Jul-16	28-Jul-16 28-Jul-16		02-Feb-17 A 02-Feb-17 A	02-Jun-17 02-Jun-17		-69d -69d				
929	EN100050	Energisation of Switchboard (Transformer Room) & SAT	Od			02-Feb-17 A	15-Feb-17 A	100%				Erergisation of Switc	hboard (Transformer Room) & SAT
930	EN100100	Energisation of Switchboard (Main LV Switchroom) & SAT	1d 28-Jul-16	28-Jul-16	12d	08-Mar-17	21-Mar-17	0%	-119d	-193d			Energisation of
931	EN100150	Energisation of MCC (For Anaerobic Digestion System) & SAT	1d 28-Jul-16	28-Jul-16	12d	13-Apr-17	29-Apr-17	0%	-113d	-223d			
32	EN100200	Energisation of MCC (For Waste Water Treatment System) & SAT	1d 28-Jul-16	28-Jul-16	18d	12-May-17	02-Jun-17	0%	-145d	-249d			
33	EN100250	Energisation of MCC (For Composting System) & SAT	1d 28-Jul-16	28-Jul-16	18d	27-Mar-17	20-Apr-17	0%	-112d	-215d			
934	EN100280	Energisation of MCC (For Dewatering System) & SAT	Od		12d	03-Apr-17	20-Apr-17	0%	-108d				
35	EN100300	Energisation of MCC (For Waste Receiving and Pre-Traetment System) & S	SAT 1d 28-Jul-16	28-Jul-16	12d	12-May-17	25-May-17	0%	-133d	-243d			
36	EN100350	Energisation of MCC (For Centralized Air Pollution System) & SAT	1d 28-Jul-16	28-Jul-16	12d	05-May-17	18-May-17	0%	-134d	-237d			
937	EN100400	Energisation of MCC (For Heat Recovery and Power Generation System) &	k Od		12d	06-Apr-17	22-Apr-17	0%	-106d				
38	EN100450	Energisation of MCC (For Biogas Storage and Cleaning System) & SAT	Od		12d	06-Apr-17	22-Apr-17	0%	-37d				
39			Od		69d	18-Feb-17	16-May-17		-13d				
940	HANDOVEN FRO		Od		69d	18-Feb-17	16-May-17		-13d				
941			Od Od		69d 69d		16-May-17 16-May-17		-13d -13d				-
942	HE160010	Tranformer Room and Main HVLV Installation Completed	Od		090 Od		25-Mar-17	0%	-13u -86d				♦ Tranfo
944	HE160250	ASP Area Handover	0d		1d	26-Apr-17	26-Apr-17	0%	-107d				
945	HE160300	Building 1 (Roof Pretreatment) Handover	0d		1d	16-May-17	16-May-17	0%	-132d				
946	HE160350	Fire Hydrant Network Handover	Od		1d	11-May-17	11-May-17	0%	-50d				
947	HE160450	Workshop Room Handover	Od		Od	18-Feb-17	18-Feb-17	0%	-48d			Workshop Room	Handover
948	HE160500	CEMS Calibration Fluids storage Room Handover	Od		1d	26-Apr-17	26-Apr-17	0%	-107d				
949	HE161150	Process Water Room Handover	Od		1d	16-May-17	16-May-17	0%	-129d				
950	HE161200	CEMSArea Handover	Od		1d	26-Apr-17	26-Apr-17	0%	-107d				
951	HE161850	Building 3 Gen set room Handover	Od		1d	29-Mar-17	29-Mar-17	0%	-19d				•
952	HE162300	Composting Room Handover	Od		2d	08-May-17	09-May-17	0%	-126d				
953	HE162450	Composting Corridor (+ tunnels) Handover	Od		1d	08-May-17	08-May-17	0%	-125d				
954	HE162700	Hot Water Pump Room for BS Handover	Od		1d	24-Apr-17	24-Apr-17	0%	4d				

Project:v1.4_up_17Feb17	Activity	<b>◇</b>	Baseline Milestone	Critical	<b>♦</b>	Actual Milestone	Baseline: Contract Programme for The Design and Construction
Ref.:WS-OSC-00-0-TM-0080-A, Date:1-Mar-2017	Primary Baseline	•	<ul> <li>Milestone</li> </ul>	Actual Work	(		Works v1.4

Apr May Earthi Emergency Genset Installation Diesel Tank Pipework (Genset) Diesel Tank Pipework Instrumentation and Control (Genset) Equipment at Ga	ng and L te House
Emergency Genset Installation Diesel Tank Pipework (Genset) Diesel Tank Pipework Instrumentation and Control (Genset)	
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Roller Shutters (Local)	_
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•	
Energisation of MCC (For Composting	System)
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Energisation of MCC (For Heat Rec	overy a
Energisation of MCC (For Biogas S	orage a
ormer Room and Main HVLV Installation Completed	
ASP Area Handover	
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CEMS Calibration Fluids stor	ane Ror
	age riot
CEMS Area Handover	-
Building 3 Gen set room Handover	
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Hot Water Pump Room for BS	Handove
Page 17 of 17 print: 01-Mar-17 10	
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Annex D

Project Organization Chart with Contact Details <u>Project Organization During Construction Phase (with contact details)</u>



Annex E

Implementation Schedule of Mitigation Measures

## EIA Ref. EM&A **Environmental Protection Measures** Location/Timing Status Log Ref. Summary of Environmental Mitigation Measures in the EIA and EM&A Manual A. Air Quality 3.73 2.5 Air Pollution Control (Construction Dust) Regulation & Good Site Practices Construction Site During <> • Use of regular watering, with complete coverage, to reduce dust emissions from exposed **Construction Period** site surfaces and unpaved roads, particularly during dry weather. • Use of frequent watering for particularly dusty construction areas and areas close to ASRs. • 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. • Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site · 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. • Imposition of speed controls for vehicles on unpaved site roads. 8 kilometers per hour is the recommended limit. • Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. • 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. 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. • 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. В. Hazard to Life Construction Phase Construction Site / During 4.102 3.3 $\sqrt{}$ • The number of workers on site during construction stage should be kept at the same level as Construction Period

## Annex E Summary of Mitigation Measures Implementation Schedule

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<ul> <li>the assessment.</li> <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 ESD 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 conducted to identify area of improvement. Prior notice of periodic drills should be conducted to identify area of improvement. Prior notice of periodic drills should be conducted to identify area of improvement. Prior notice of periodic drills should be given to Station C</li></ul>		
С. И	Vater Quality			
5.44	4.5	<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.	Construction Site / During Construction Period	\$
5.45	4.5	Excavation of Soil MaterialsThe 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	Construction Site / During Construction Period	<>

EIA Ref.	Log Ref.		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	<u>Accidental spillage of chemicals:</u> 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	$\checkmark$
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	<ul> <li>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal</li> <li>Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</li> <li>published under the Waste Disposal Ordinance details the requirements to deal with chemical</li> <li>wastes. General requirements are given as follows:</li> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage</li> <li>during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labeled, to notify and warn the personnel who</li> <li>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</li> <li>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	Sewage Effluent	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	$\checkmark$
5.53	4.5	Nullah Decking         To minimize the potential water quality impacts from the nullah reconstruction works, the practices outlined below should be adopted where applicable:         • The proposed works should be carried out within the dry season between October and March when the flow in the open nullah is low.         • The use of less or smaller construction plants may be specified to reduce the disturbance to the nullah bed.         • 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.         • Stockpiling of construction materials and dusty materials should be covered and located away from the nullah any water courses.         • 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.         • Construction effluent, site run-off and sewage should be properly collected and/or treated.         • 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.         • Proper shoring may need to be erected in order to prevent soil/mud from slipping into the nullah and nearby watercourse.	Work Site / During Construction Period	N/A
D. V	Vaste Managen	nent	1	1
6.41	5.4	Good Site Practices	Work Site / During	<>

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<ul> <li>Recommendations for good site practices during the construction phase would include:</li> <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	Waste Reduction Measures           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:           • Design foundation works that could minimise the amount of excavated material to be generated;           • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling;           • Sort out demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (i.e. soil, broken concrete, metal etc.);           • Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;           • 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           • Plan and stock construction materials carefully to minimize the amount of waste to be generated and to avoid unnecessary generation of waste.	Work Site/During Design & Construction Period	
6.44	5.7	Excavated and C&D Materials         In order to minimise the impact resulting from collection and transportation of C&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:         • A WMP, which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TCW No.19/2005;	Work Site/During Design & Construction Period	√

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		<ul> <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>		
6.45 - 6.46	5.8 - 5.9	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. A system should be devised to work for on-site sorting of excavated and C&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.	Work Site/During Design & Construction Period	V
6.47	5.10	Chemical WasteShould chemical wastes be produced at the construction site, the Contractor would be requiredto register with EPD as a Chemical Waste Producer and to follow the guidelines stated in theCode of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good qualitycontainers compatible with the chemical wastes should be used, and incompatible chemicalsshould be stored separately. Appropriate labels should be securely attached on each chemicalwaste container indicating the corresponding chemical characteristics of the chemical waste(such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractorshould employ a licensed collector to transport and dispose of the chemical wastes, to eitherthe CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal(Chemical Waste) General) Regulation.	Work Site / During Construction Period	<>
6.48	5.11	<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separated from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site / During Construction Period	<>
E. La	andscape and	Visual		
7.99 & Table 7.7	Table 6.1	<u>Construction Phase</u> • Topsoil, where identified, should be stripped and stored for re-use in the construction of the	Work site/During Design & Construction Stages	$\checkmark$

EIA Ref.	EM&A Log Ref.	Environmental Protection Measures	Location/ Timing	Status
		soft landscape works, where practical		
		• Compensatory tree planting should be provided to compensate for felled trees.		
		- Compensation tree species shall be chosen from both indigenous and ornamental species		
		- Compensatory tree planting quantities shall be as per DLO approved requirement.		
		Control of night-time lighting		
		Erection of decorative screen hoarding compatible with the surrounding setting		
<i>F. N</i>	loise			
8.25	7.3	Good Site Practice:	Work site/During Design &	$\checkmark$
		Only well-maintained plant should be operated on-site and plant should be serviced	Construction Stages	
		regularly during the construction program;		
		• Mobile plant, if any, should be sited as far from noise sensitive receivers (NSRs) as possible;		
		• 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;		
		• 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		
		• Material stockpiles and other structures should be effectively utilized, wherever practicable,		
		in screening noise from on-site construction activities.		

Remark:

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Compliance of Mitigation Measures Compliance of Mitigation but need improvement Non-compliance of Mitigation Measures <>

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- Non-compliance of Mitigation Measures but rectified by OSCAR Bioenergy JV
- Deficiency of Mitigation Measures but rectified by OSCAR Bioenergy JV Δ
- Not Applicable in Reporting Period N/A

Annex F

Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated						Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated				
Month	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 2016	1561.82	39.00	0.00	0.00	1522.82	40000	9.30	0.00	700.00	114.47	
November 2016	897.23	507.94	00.00	0.00	389.76	0.00	123.00	0.00	0.00	154.22	
December 2016	2477.95	489.00	0.00	0.00	1988.95	2960.00	93.00	0.00	0.00	136.80	

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

	Actual Quantities of Inert C&D Materials Generated						Actual Quantities of Non-inert C&D Materials (Construction Waste) Generated				
Month	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	
January 2017	2150.92	503.60	0.00	0.00	1647.32	31240.00	21051.00	3630.00	0.00	127.43	
February 2017	553.80 (See Note 4)	440.00	0.00	0.00	113.80	14940.00	18820.00	2880.00	460.00	83.46	
Total	50256.79	2287.84	0.00	0.00	47968.95	351520.00	78422.30	6510.00	2055.00	1295.74	

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, 553.80 tonnes of inert C&D material were generated from the Project, of which the 113.8 tonnes were disposed as public fill to Fill Bank at Tuen Mun Area 38 in reporting period and the 440.00 tonnes were reused in this contract.

Annex G

Environmental Complaint, Environmental Summons and Persecution Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
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

## Annex G Cumulative Complaint and Summons/Prosecutions Log

<b>Reporting Month</b>	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2016	0	0
December 2016	0	0
January 2017	0	0
February 2017	0	0
Overall Total	0	0