ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly EM&A Report
March 2013
(Version 1.0)

Certified By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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Subject:	Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate Monthly EM&A Summary Report for March 2013		
Job No.	D1067	Total Pages:	1
From:	Mr. Mark Cheung	Ref:	D1067/H01348
Attn:	Ms. Ivy Tam / Ms. Betty Choi	<i>Fax:</i>	3107 1388
<i>To:</i>	Cinotech	Date:	15 April 2013

Dear Madam,

We refer to your submission of the Monthly EM&A Report for March 2013 via email dated 15 April 2013.

We write to advise that we have no comment on the captioned report.

Regards,

Mark Cheung

Independent Environmental Checker

KTČ/gk

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 46th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate". This report documents the findings of EM&A Works conducted in March 2013.
- 2. The major site activities undertaken in the reporting month included:
 - General site cleaning and tidying.
 - Zone 1A Administration Building Finishing work
 - Zone 1A Administration Building Windows, louver and doors installation work
 - Zone 1B Fat Preparation Building Windows, louver and doors installation work
 - Zone 1B Fat Preparation Building Finishing work
 - Zone 1B Steam Boiler Room Building -Windows, louver and doors installation work
 - Zone 2A GTWSR Equipment installation work
 - Zone 2B-2E Tank Farm Steel tank fabrication work
 - Zone 2B-2E LV switch room construction work
 - WWTP Roof system installation work
 - WWTP Equipment installation work
 - Jetty Pile cap and deck superstructure construction work
 - Pipe Bridge Pipe Bridge Erection Work
 - Building Services P&D work
 - Building Services Fire Service work
 - Building Services MVAC work
 - Building Services Electrical work
 - External Works Boundary wall construction work
 - External Works Storm water drainage work
 - External Works Foul water drainage work
 - External Works Fresh water main installation work
 - External Works Salt water main installation work
 - External Works Fire Services pipes laying work
 - External Works Cable laying work
 - External Works Pavement work

Environmental Monitoring and Audit Works

3. Environmental monitoring and audit works for the Project were performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. The implementation of the environmental mitigation measures and environmental complaint handling procedures were also checked.

Environmental Licenses and Permits

4. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project. Environmental Permits No. EP-319/2009 and EP-319/2009/A were issued on 11 March 2009 and 7 April 2009 respectively. The Contractor has applied for the Registration of Chemical Waste Producer (WPN-5113-839-C1186-15), Construction

Noise Permit (GW-RE0043-13), Wastewater Discharge License (WT00004508-2009), Notification of Works under APCO (337009) and Waste Discharge Account (7013917).

Key Information in the Reporting Month

5. Summary of key information in this reporting month is tabulated in **Table I**.

 Table I
 Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
Event	Number	Nature	Action Taken	Status	Kemark
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	1	Monthly EM&A Report for February 2013	Submitted to EPD on 14 March 2013	Verified by IEC	
Notifications of any summons & prosecutions	0		N/A	N/A	

Future Key Issues

- 6. Major site activities for the coming three months will include:
 - General site cleaning and tidying.
 - Zone 1A Administration Building Finishing works
 - Zone 1B Steam Boiler Room ABWF works excluding windows, louvers and doors
 - Tank Farm 2A Pipe installation work
 - Tank Farm 2A Bund wall finishing work
 - Tank Farm 2A GTWSR Equipment and pipe installation works
 - Tank Farm 2A GTWSR ABWF works excluding windows, louvers and doors
 - Tank Farm 2B-2E Tank fabrication works
 - Tank Farm 2B-2E Finishing works
 - WWTP ABWF works excluding windows, louvers and doors
 - Jetty Deck superstructure construction works
 - Pipe Bridge Pipe bridge erection work
 - Building Services Fire services work
 - Building Services MVAC work
 - Building Services Electrical work
 - Building Services P&D work
 - Building Services Lift installation work
 - External Boundary wall construction work
 - External Works Storm water drainage work
 - External Works Foul water drainage work
 - External Works Plumbing laying work
 - External Works Fire Services piping laying work
 - External Works Cable laying work
 - External Works Pavement work

	Monthly EM&A Report for March 2013
7.	The future environmental concerns are air quality, water quality, waste management and surface runoff from construction works.

1 INTRODUCTION

Background

- 1.1 Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate is a Designated Project (hereafter referred to as "the Project") under the Environmental Impact Assessment Ordinance (Cap. 449). A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, ecological and identify possible mitigation measures associated with the works. An EIA Report was approved by the Environmental Protection Department (EPD) on 26 February 2009.
- 1.2 The project is to construct and operate a 100,000 tonnes per annum biodiesel plant at Tseung Kwan O Industrial Estate. The plant will use a multi-feedstock which consists of waste cooking oil (WCO), oil and grease recovered from grease trap waste (GTW), Palm Fatty Acid Distillate (PFAD) and animal fats. The proposed biodiesel plant not only offers a convenient recycling outlet for GTW and WCO but also converts the oil and grease recovered from these wastes into useful products. The Project also offers a cleaner alternative to diesel fuel to the Hong Kong market. The main processes include the followings:-
 - Construction of feedstock reception and storage facilities, and offices;
 - Construction of a grease trap waste pre-treatment facility (with a designated treatment capacity of about 200,000 tonnes per annum);
 - Construction of a wastewater treatment plant (with a designed treatment capacity of about 170,000 m³ per annum);
 - Installation of biodiesel production and glycerine purification system;
 - Construction of product storage and ancillary facilities;
 - Pretreatment of grease trap waste;
 - Treatment of wastewater generated from feedstock pre-treatment and glycerine dewatering process, and filtrates from dewatering process of sludge treatment;
 - Transesterification of feedstock with alcohol-catalyst; and
 - Purification of biodiesel.
 - 1.3 The general layout of the Project is shown in **Figure 1.1.**
 - 1.4 Layout plan of tank farm **2A**, **2B** to **2E** is revised and a report is made by Environmental Resources Management (ERM) regarding such change. The report concluded that no deviation is found from the approved EIA report.
 - 1.5 Environmental Permits (EP) No. EP-319/2009, EP-319/2009/A and EP-319/2009/B were issued on 11 March 2009, 7 April 2009 and 31 Jan 2013 respectively for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate to ASB Biodiesel (Hong Kong) Limited as the Permit Holder. A VEP was submitted and the latest EP No. EP-319/2009/C was issued by EPD on 5 Mar 2013.
 - 1.6 Cinotech Consultants Limited was commissioned by the Contractor to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. This is the 46th Monthly EM&A report summarizing the EM&A works for the Project in March 2013.

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent ASB Biodiesel (Hong Kong) Limited
 - Project Manager AECOM
 - Contractor China Harbour Engineering Company Limited (CHEC)
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) Mannings (Asia) Consultants Ltd.
- 1.8 The responsibilities of respective parties are detailed in Section 1.10 of the Final EM&A Manual of the Project.
- 1.9 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.
ASB	Project Proponent	Ms. Sylvia Har	Senior Plant Engineer	9479 0949	3741 1661
		Dr. HF Chan	ET Leader	2151 2088	
Cinotech	Environment al Team	Ms. Ivy Tam	Project Coordinator	2151 2090	3107 1388
		Ms. Betty Choi	Audit Team Leader	2151 2072	
	Independent Environment al Checker	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	
Mannings		Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	3168 2022
AECOM	Project Manager	Mr. Matthew Lau	Construction Manager	9363 5586	N/A
		Mr. Peter Chung	Project Manager	9471 2438	
СНЕС	Contractor	Mr. Anson Wong	Safety and Environmental Officer	9656 3837	2623 9226
		Mr. Simon Li	Environmental Supervisor (Ass. Planning Engineer)	6152 7867	

Construction Programme

- 1.10 The site activities undertaken in the reporting month were:
 - General site cleaning and tidying.
 - Zone 1A Administration Building Finishing work
 - Zone 1A Administration Building Windows, louver and doors installation work
 - Zone 1B Fat Preparation Building Windows, louver and doors installation work
 - Zone 1B Fat Preparation Building Finishing work
 - Zone 1B Steam Boiler Room Building –Windows, louver and doors installation work
 - Zone 2A GTWSR Equipment installation work
 - Zone 2B-2E Tank Farm Steel tank fabrication work
 - Zone 2B-2E LV switch room construction work
 - WWTP Roof system installation work
 - WWTP Equipment installation work
 - Jetty Pile cap and deck superstructure construction work
 - Pipe Bridge Pipe Bridge Erection Work
 - Building Services P&D work
 - Building Services Fire Service work
 - Building Services MVAC work
 - Building Services Electrical work
 - External Works Boundary wall construction work
 - External Works Storm water drainage work
 - External Works Foul water drainage work
 - External Works Fresh water main installation work
 - External Works Salt water main installation work
 - External Works Fire Services pipes laying work
 - External Works Cable laying work
 - External Works Pavement work

Summary of EM&A Requirements

- 1.11 The EM&A requirements are described in the following sections, including:
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.

2 ENVIRONMENTAL AUDIT

Site Audits

- 2.1 Site audits were carried out by ET on monthly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summary of the site audit in this reporting month is attached in **Appendix A**.
- 2.2 Site audit was conducted on 20^{th} March 2013 by ET in the reporting month. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

2.3 All permits/licenses obtained for the Project are summarized in **Table 2.1**.

Status of Waste Management

2.4 The quantities of waste generated in this reporting month are summarized in **Appendix** C.

Implementation Status of Environmental Mitigation Measures

2.5 According to the EIA Study Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the EMIS is provided in **Appendix B**.

Table 2.1 Summary of Environmental Licensing and Permit Status

Dommit / License No	Valid Period		Details	C44
Permit / License No.	From	To		Status
Environmental Permit (El	P)			
EP-319/2009/A	07/04/2009	N/A	Construction and operation of	Valid
			(i) a biochemical plant with a storage capacity of more than 500 tonnes and in which substances are processed and produced;	
			(ii) a storage, transfer and transhipment of oil facility with a storage capacity of not less than 1,000 tonnes; and	
			(iii) a dangerous goods godown with a storage capacity exceeding 500 tonnes .	
Registration of Chemical	Waste Produce	r	-	
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid
Construction Noise Permi	t (CNP)		1	
GW-RE0043-13	02/01/2013	20/07/2013	Use of Powered Mechanical Equipment during 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday.	Valid
Wastewater Discharge Lie	ense			
WT00004508-2009	07/09/2009	-	Discharge of wastewater from construction site including wheel washing water and chemical precipitation tank	Valid
Billing Account for Dispos	sal of Construct	tion Waste		
A/C No.: 7013917	-	-	-	Valid
Notification of Works und	er APCO	•		
Ref. no.: 337009	26/10/2011	-	-	Valid

2.6 During the site inspection in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit session are summarized in **Table 2.2**.

Table 2.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality		The buoy of the silt curtain should be	Follow up action was taken
water Quality	NI/A	floated.	by the Contractor.
Permit/Licenses	N/A	Latest environmental permit should be	Follow up action was taken
remm/Licenses		put up.	by the Contractor.

Summary of Complaint and Prosecution

- 2.7 No environmental related complaint, prosecution or notification of summons was received in the reporting month.
- 2.8 Since the Project commencement, there were a total of 5 project-related environmental complaints. No prosecution or notification of summons was received since the Project commencement. The Complaint Log is attached in **Appendix D**.

3 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 3.1 Key issues to be considered in the coming month include:
 - Noise from operation of the equipment and machinery on-site;
 - Effluent discharge generated from surface runoff;
 - Dust generated from excavation works and stockpile of dusty materials;
 - Maintenance of de-silting facilities and drainage system, such as U-channels;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of stagnant water in the site areas;
 - Accumulation of C&D waste and general waste on site.

Construction Program for the Next Months

- 3.2 A tentative construction programme is provided in **Appendix E**. The major construction activities in the coming three months will include:
 - General site cleaning and tidying.
 - Zone 1A Administration Building Finishing works
 - Zone 1B Steam Boiler Room ABWF works excluding windows, louvers and doors
 - Tank Farm 2A Pipe installation work
 - Tank Farm 2A Bund wall finishing work
 - Tank Farm 2A GTWSR Equipment and pipe installation works
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 - External Works Pavement work

4 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 4.1 Environmental audit works were conducted in the reporting month. Site inspections were conducted on monthly basis. The results were reviewed and checked.
- 4.2 No environmental complaint, prosecution or notification of summons was received.

Recommendations

4.3 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Impact

- To identify any wastewater discharges from site.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks.
- To review the capacity of de-silting facilities for discharge.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To avoid accumulation of stagnant and ponding water on site.
- To clear the drainage channel regularly to prevent blockage.
- To set up silt curtain around marine piling work.

Dust Impact

- To remove fugitive dusty material on the haul road periodically.
- Excavated dusty materials or stockpile of dusty materials should be covered by impervious sheeting, or sprayed with water so as to maintain entire surface wet.

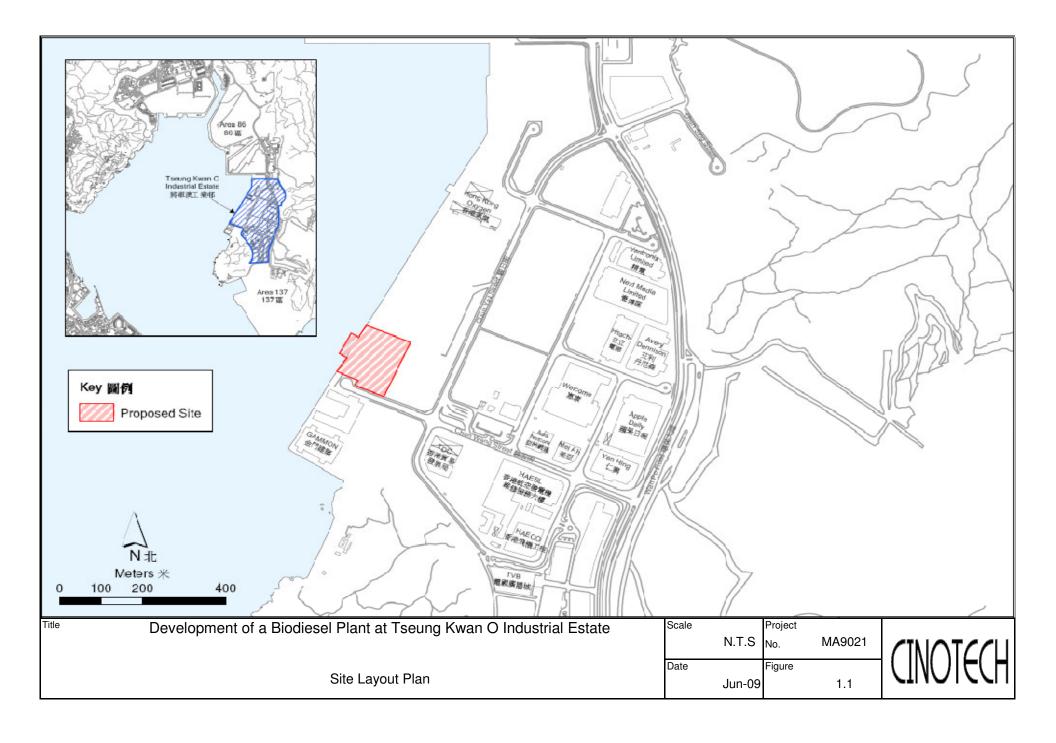
Noise Impact

- To space out noisy equipment and position as far away as possible from sensitive receivers.
- To inspect the noise sources inside the site.

Waste / Chemical Management

- To provide proper rubbish bins / skips for waste collection.
- To provide proper storage area for oil container on site.
- To avoid and check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment.

FIGURES



APPENDIX A SITE AUDIT SUMMARY

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	130320
Date	20 March 2013 (Wednesday)
Time	16:45 – 17:15

Ref. No.	Non-Compliance	Related Item
		No.
-	None	-

Remarks/Observations **Related Item** Ref. No. No. A. Water Quality 130320-R01 • The buoy of the silt curtain should be floated. B. Air Quality • No environmental deficiency was identified during site inspection. C. Noise • No environmental deficiency was identified during site inspection. D. Waste / Chemical Management • No environmental deficiency was identified during site inspection. E. Permit / Licenses 130320-R02 • Latest environmental permit should be put up. F1 F. Reminders • No environmental deficiency was identified during site inspection. G. Others Follow-up on previous audit section (Ref. No.:130219): • No environmental deficiency was identified in the previous site inspection.

	Name	Signature	Date
Recorded by	Betty Choi	_ putty	21 March 2013
Checked by	Dr. HF Chan	M	21 March 2013

CINOTECH MA9021 130320

APPENDIX B UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

Appendix B - Summary of Environmental Mitigation Implementation Schedule (Construction Phase)

Types of Impacts	Mitigation Measures	Status
	• Dust control measures such as water spaying on roads and dusty areas, covering of lorries by impervious sheets and controlling of the falling height of fill materials will be implemented;	^
	• Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level of the facility during the building construction;	^
	 All debris and materials will be covered or stored in a sheltered debris collection area; 	^
Construction Dust	 Hoarding from ground level will be provided along the entire length of the site boundary except for a site entrance or exit; Every stockpile of dusty materials will be covered entirely by impermeable sheeting or placed in an area sheltered on the top and the 2 sides. 	^
	and the 3 sides;Regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke	^
	emissions and to minimize gaseous emissions.	^
	• Monthly site audits will be conducted to ensure the implementation of suitable dust control measures and good site practices.	^
	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction program;	٨
	• Silencers or mufflers on construction equipment will be utilized and will be properly maintained during the construction program;	^
	 Mobile plant, if any, will be sited as far from NSRs as possible; 	^
Construction	 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; 	٨
Noise	• Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and	٨
	 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from onsite construction activities. 	^

Compliance of mitigation measure; Remarks: ^

X Non-compliance of mitigation measure;

N/A Not Applicable at this stage; • Non-compliance but rectified by the contractor;

* Recommendation was made during site audit but improved/rectified by the contractor;

* Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

Types of Impacts	Mitigation Measures	Status
	• Silt curtain will be installed around the marine piling area to contain any suspended mud and sediments generated during the piling works. Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from groundwater (if pumping is required) to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Construction Site Run-off and Drainage	^
Water Quality	 Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Careful programming of the works to minimise surface excavations for the construction works during the wet season. If excavation of soil cannot be avoided during the wet season, exposed slope surfaces will be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarised in ProPECC PN 1/94. Exposed soil surfaces will be protected by paving or fill material as soon as possible to reduce the potential of soil erosion. Open stockpiles of construction materials or construction wastes on-site of more than 50m³ will be covered with tarpaulin or similar fabric during rainstorms. These materials will not be placed near the seawall area. 	^ ^
	 General Construction Activities Debris and refuse generated on-site will be collected, handled and disposed of properly to avoid entering the nearby water sensitive receivers (WSRs). Stockpiles of cement and other construction materials will be kept covered when not being used. Oils and fuels will only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas will be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund will be drained of rainwater after a rain event. 	^

Compliance of mitigation measure; Remarks: ^

X Non-compliance of mitigation measure;

N/A Not Applicable at this stage;

* Recommendation was made during site audit but improved/rectified by the contractor;

* Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

Types of Impacts	Mitigation Measures	Status
	Sewage generated from On-site Workforce	
	 Temporary sanitary facilities, such as portable chemical toilets, will be provided on-site. A specialised contractor will be responsible for regular collection and appropriate disposal of the sewage and maintenance of these facilities. Monthly site inspections will be carried out during construction to ensure that the mitigation measures listed above are properly implemented. The site audit frequency will be increased to weekly intervals during the piling works. 	^
Ecology	Mitigation measures for minimising water quality impacts are presented in detail above. These measures will be properly implemented and good construction practices will be adopted to minimise potential adverse impacts to marine ecological resources.	۸

[^] Compliance of mitigation measure; X Non-compliance of mitigation measure;
N/A Not Applicable at this stage; • Non-compliance but rectified by the contractor;
* Recommendation was made during site audit but improved/rectified by the contractor;
Non-compliance but rectified/improved by the contractor and awaiting IEC's further comment.

APPENDIX C WASTE GENERATION IN THE REPORTING MONTH Monthly Summary Waste Flow Table For Contract 270 Biodiesel Plant Tseung Kwan O Project Reporting Year: <u>2013</u>

	Actual	Quantities of Iner	rt C&D Materia	als Generated / Im	ported (in '00	00 m³)	Actual Quantities of Other C&D Materials / Wastes Generated										
Month	Total Quantities Generated [a+b+c+d]	Broken Concrete (including rock for recycling into aggregates) (a)	Reused in the Contract	Reused in Other Projects (c)	Disposed as Public Fill (d)	Imported C&D Material	Metal (in '000 kg)	Paper/ cardboard packaging (in '000kg)	Plastics (bottles/containers, plastic sheets/ foams from package material) (in '000kg)	Chemical Waste (in '000kg)	Others (e.g. General Refuse etc.) (in '000m3)						
January	0	0	0	0	0	0	0	0.005	0	0	0.082						
February	0	0	0	0	0	0	0	0.004	0	0	0.020						
March	0	0	0	0	0	0	0	0.004	0	0	0.053						
April																	
May																	
June																	
Half-year Total																	
July																	
August																	
September																	
October																	
November																	
December																	
Yearly Total																	

APPENDIX D COMPLAINT LOG

APPENDIX D – COMPLAINT LOG

Reporting Month: March 2013

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
COM- 2012- 08-001	Jetty Area	28-08- 2012	A resident in Lohas Park complained about noise nuisance from the site.	Investigation by EPD identified the source to be chiselling work at the jetty area. Although the chisel machines were covered by valid CNP, the Contractor decided to suspend the corresponding work during restricted hours. The machine was later covered by sound proof canvas to minimize noise transmission. Subsequent inspection and noise measurement by the EPD on 3 rd September 2012 concluded that the noise reduction measure was effective and acceptable at Lohas Park.	Closed
COM- 2012- 09-002	Jetty Area	07-09- 2012	A resident in Lohas Park complained about noise nuisance from the site.	Investigation by EPD identified the source to be chiselling work at the jetty area. Only one chisel machine was operated on the day of complain and it was screened by sound proof canvas. Although the machine was covered by valid CNP, the Contractor decided to suspend the corresponding work during restricted hours during investigation period. Subsequent inspection and noise measurement (daytime at site, night time at Lohas Park) by the EPD on 12 th September 2012 concluded that the noise levels were acceptable at Lohas Park.	Closed
COM- 2012- 09-003	Jetty Area	27-09- 2012	A resident in Lohas Park complained about noise nuisance from the site.	The chisel machine used at JP3 of the jetty area was identified as the noise source. According to the Contractor, the machine was screened by sound proof canvas. Although the machine was covered by valid CNP, the Contractor decided to carry out the corresponding work during normal operation hours only. This was agreed with the complainant in Lohas Park.	Closed
COM- 2012- 09-004	Not Specified	04-10- 2012	A resident in Lohas Park complained about noise nuisance from the site at	According to the Contractor, According to the Contractor, only one drilling machine and chiselling machine were in use, which were covered by valid CNP. We advised the Contractor to communicate with the residents in Lohas	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			11:18pm.	Park given consistent noise complains. The Contractor explained to the complainant that chiselling work will stop at 11pm every day and start after 10am during weekends to minimize noise nuisance. Further in November, a noise enclosure was erected to cover the noisy part of the chiselling machine.	
Com- 2012- 11-005	Jetty Area	23-11- 2012	A resident in Lohas Park complained about noise nuisance from the site at around 3:00 am	The chisel machine used of the jetty area was identified the noise source. According to the Contractor, the machine was screened by enclosure. Although the machine was covered by valid CNP, the Contractor decided to carry out the corresponding work during 7:00 – 23:00. Contractor explained to the complainant that the bored piling will be completed in early December.	Closed

Remarks: N/A

APPENDIX E CONSTRUCTION PROGRAMME

															Page 1 of
ctivity ID	Activity Name	BL Start	BL Finish	Current Duration	Current Start	Current Finish	% Complete	Delay from Initial	Total Float	NID	ılel.	4 0 14	2012	SOND	2013
C270MC 2N	A Polling Programme Ver 2.0 (200212)	03-Jan-12	12-Dec-12	145	04-Mar-13 A	26-Jul-13		-226	317	N D	JFI	W A W	J Jul A	SOND	J F M A M
	M-Rolling Programme Ver.2.0 (290313)														
Remaining	Construction Works	03-Jan-12	12-Dec-12	145	04-Mar-13 A	26-Jul-13		-226	317						
1B - Process	Building	03-Jan-12	30-Sep-12	101	18-Mar-13 A	26-Jun-13		-269	-87						V
PB-Plumbing	and Drainage	03-Jun-12	30-Sep-12	51	31-Mar-13	21-May-13		-232	-189						
A18025	PB-Installation of sanitary fittings		01-Aug-12	21	31-Mar-13	21-Apr-13	0%	-262	-189					<u> </u>	— P
A18300	PB-BS Plumbing and Drainage Testing		30-Sep-12	30	21-Apr-13	21-May-13	0%	-232	-189			iii			
PB-Electrical		05-Jul-12	02-Sep-12	60	28-Apr-13	26-Jun-13		-297	-196						Y
A18055	PB-BS Electrical Testing	05-Jul-12	·	60	28-Apr-13	26-Jun-13	0%	-297	-196					=	
PB-MVAC		05-Jul-12		60	17-Apr-13	16-Jun-13		-287	-77			i			<u> </u>
A18065	PB BS MVAC Testing	05-Jul-12	02-Sep-12	60	17-Apr-13	16-Jun-13	0%	-287	-77					<u> </u>	
PB-Fire Service				43	18-Mar-13 A				-189						
A18082	PB-BS Final connection works			43	18-Mar-13 A		30%		-189						
PB-Processin	<u> </u>	03-Jan-12	26-Jun-12	90	29-Mar-13	26-Jun-13		-365	-208						
A17900	PB-BDI Pipe insulation, Process Electrical & Instrumentation		26-Jun-12	90	29-Mar-13	26-Jun-13	0%	-365	-208	-	1 1	1 1	—		
	aration Building	<u> </u>	10-Sep-12	62	29-Mar-13	29-May-13		-261	239				1 1 1		
FP-Plumbing	and Drainage	02-Aug-12	10-Sep-12	40	29-Mar-13	07-May-13		-239	-176						
A19055	FP-Installation of sanitary fittings	-	31-Aug-12	30	29-Mar-13	27-Apr-13	0%	-239	-176						F
A19200	FP-BS Plumbing and Drainage Testing	02-Aug-12	10-Sep-12	30	08-Apr-13	07-May-13	0%	-239	-176			1 1		=	
FP-Electrical		02-Aug-12	10-Sep-12	40	16-Apr-13	26-May-13		-257	-165						V
A19090	FP-BS Electrical Testing	02-Aug-12	10-Sep-12	40	16-Apr-13	26-May-13	0%	-257	-165		<u></u>	. j j		.	
FP-Fire Service	ces	02-Aug-12	10-Sep-12	40	15-Apr-13	25-May-13		-257	-164						▼
A19300	FP-Fire Service Testing	02-Aug-12	10-Sep-12	40	15-Apr-13	25-May-13	0%	-257	-164			iii			
FP-Processing	g Works	13-Apr-12	07-Jun-12	56	04-Apr-13	29-May-13		-356	239					T	
A18900	FP-BDI Pipe insulation, Process Electrical & Instrumentation	on Works 13-Apr-12	07-Jun-12	56	04-Apr-13	29-May-13	0%	-356	239				_		
1B - Boiler Ro	oom	08-Apr-12	30-Sep-12	120	29-Mar-13	26-Jul-13		-299	317				T		+
BR-Plumbing	and Drainage	02-Aug-12	31-Aug-12	51	04-Apr-13	24-May-13		-266	-193	111-			1 1		
A20055	BR-Installation of sanitary fittings	02-Aug-12	31-Aug-12	30	04-Apr-13	03-May-13	0%	-245	-193						
A20200	BR-BS Plumbing and Drainage Testing	02-Aug-12	22-Aug-12	21	04-May-13	24-May-13	0%	-275	-193					1	_
BR-Electrical		03-Jun-12	31-Aug-12	90	29-Mar-13	26-Jun-13		-299	-196						
A20030	BR-BS Cable laying works(Electrical) 1st stage	03-Jun-12	02-Jul-12	30	29-Mar-13	27-Apr-13	0%	-299	-196						E
A20040	BR-BS Cable laying works(Electrical) 2nd stage	03-Jul-12	01-Aug-12	30	28-Apr-13	27-May-13	0%	-299	-196						
A20050	BR-Lighting installation works	02-Aug-12	31-Aug-12	30	28-Apr-13	27-May-13	0%	-269	-196						<u> </u>
A20061	BR-BS Final connection works(Electrical)			28	09-May-13	05-Jun-13	0%		-196			i i			-
A20090	BR-BS Electrical Testing	02-Aug-12	22-Aug-12	21	06-Jun-13	26-Jun-13	0%	-308	-196						
BR-Fire Servi	-	03-Jul-12		120	29-Mar-13	26-Jul-13		-299	-117						
A20080	BR-BS Sprinkler installation works(Fire Services)	03-Jul-12	01-Aug-12	30	29-Mar-13	27-Apr-13	0%	-269	-117				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
A20100	BR-BS Cable laying works (Fire Services)			30	28-Apr-13	27-May-13	0%		-117						
A20150	BR-BS Final connection works (Fire Services)			30	18-May-13	16-Jun-13	0%		-117						1
A20300	BR-Fire Service Testing	02-Aug-12	30-Sep-12	40	17-Jun-13	26-Jul-13	0%	-299	-117						
BR-Processin	-		03-Jun-12	56	02-Apr-13	27-May-13		-359	377						
A19700	BR-BDI Pipe insulation, Process Electrical & Instrumentation	· · · · · · · · · · · · · · · · · · ·	03-Jun-12	56		27-May-13		-359	377				<u> </u>		
2A - Tank Fari	<u> </u>	·	30-Oct-12	131	04-Mar-13 A			-255	-134				7		•
	A Structural and Builder's Work	01-Oct-12		38	18-Mar-13 A			-176	-207						2
A21100	2A-ABWF works in Tank Farm 2A		30-Oct-12	38	18-Mar-13 A		10%	-176	-207						
	and Drainage		27-Sep-12		18-Mar-13 A			-221	-175			1 1			
A20820	2A-BS Piping works(Plumbing) 2nd stage		13-Sep-12	46	18-Mar-13 A			-231	-175						
		10 Aug 12	500 12												
BL	♦ Milestone	Proposed Bio-Diesel Plant at T.K.O. Lot 3	39 Main Con	tract for All R	temaining Wor	·ks		Date			Revision			Checked	Approved
Actual Wo		<u>^</u>			J		29-Ma	ar-13 3	Month Rol	ing Progr	ramme				
Remainin	,	3 Month Roll	ing Progra	amme											
	emaining Work		_ 0												
Childan							1								

y ID	Activity Name	В	L Start	BL Finish	Current Duration	Current Start	Current Finish	% Complete	Delay from Initial	Total Float	NI S			2012		201	_
A20900	2A-BS Plumbing and Drainage Testing	14	Son 12	27-Sep-12	50	18-Mar-13 A		75%	-221	-175	N D J	F M	A M .	J Jul A	SOND	J F M	1 <i>F</i>
2A-Electrical			2-Jul-12	27-Sep-12	97	04-Mar-13 A	-	1376	-254	-178						-	Ļ
A20830	2A-BS Cable laying works stage 1 (Electrical)		2-Jul-12	12-Aug-12	41	04-Mar-13 A		50%	-244	-178			- i i				
A20840	2A-BS Cable laying works stage 1 (Electrical)		-Aug-12	13-Sep-12	32	14-Apr-13	15-Apr-13	0%	-244	-178							Г
A20840 A20870	2A-BS Electrical Testing		_		24	16-May-13	08-Jun-13	0%	-254	-178					₹		-
A-Fire Serv	ŭ		-Sep-12	04-Oct-12	101	29-Mar-13	07-Jul-13	078	-276	-207							╄
A20880	2A-BS Cable laying works(Fire Services)	14	ОСР 12	04 00112	40		07-3di-13	0%	210	-207							L
A20890	2A-BS Final connection works(Fire Services)				21		-	0%		-207							Г
A21000	2A-Fire Service Testing (excluding FSD Inspection)	14	-Sen-12	04-Oct-12	40	29-May-13	07-Jul-13	0%	-276	-207							
A-Processi			-Jun-12	28-Sep-12	94	09-Apr-13	12-Jul-13	070	-287	-134							t
A20700	2A-BDI Pipe insulation, Process Electrical & Instrumentation			28-Sep-12	94	09-Apr-13	12-Jul-13	0%	-287	-134							
	eparation Room			18-Nov-12	90	04-Mar-13 A		070	-196	236					-	-	Ļ
	mbing and Drainage		-May-12	18-Jul-12	59	29-Mar-13	26-May-13		-312	-195						1	╄
A21910	GTWSR-BS Piping works(Plumbing)			10-Jun-12	45	29-Mar-13	12-May-13	0%	-336	-195							Ŀ
A22200	GTWSR-BS Plumbing and Drainage Testing		5-Jul-12	18-Jul-12	14	13-May-13	26-May-13	0%	-312	-195							F
TWSR-Elec	0 0		-Jun-12	13-Aug-12	65	29-Mar-13	01-Jun-13	070	-293	-171				-		•	╄
A21940	GTWSR-BS Cable exposed conduits laying works(Electrical		-Jun-12	30-Jun-12	30	29-Mar-13	27-Apr-13	0%	-302	-216							L
A21950	GTWSR-Lighting installation works		-Jun-12	30-Jul-12	30	05-Apr-13	04-May-13	0%	-279	-216				7			Ī
A21951	GTWSR-BS Final connection works	30	-5011-12	30-3ul-12	14	05-Apr-13	18-May-13	0%	-213	-171							Γ
A21980	GTWSR-BS Electrical Testing	3()-Jul-12	13-Aug-12	14	19-May-13	01-Jun-13	0%	-293	-171							ł
TWSR-Fire	-		-May-12	18-Jul-12	55	18-Mar-13 A		070	-297	-150						_	Ļ
A21960	GTWSR-BS Piping installation works(Fire Services)		-May-12	08-Jun-12	23	29-Mar-13	20-Apr-13	0%	-317	-150							L
A21900	GTWSR-BS Sprinkler installation works(Fire Services)		-Jun-12		15	18-Mar-13 A	02-Apr-13	80%	-276	-132							F
A22020	GTWSR-BS Final connection	000	-5011-12	30-3uii-12	14	14-Apr-13	27-Apr-13	0%	-210	-152			=	=		- 1 1 7	T
A22300	GTWSR-Fire Service Testing	OF	5-Jul-12	18-Jul-12	14	28-Apr-13	11-May-13	0%	-297	-150							ł
	cessing Works		-May-12		73	·	15-May-13	078	-179	253						-	Ļ
A21600	GTWSR-Paques Piping, Electrical, Insulation & Instrument		-May-12		73	04-Mar-13 A		20%	-316	-135							Ł
A21800	GTWSR-BDI Piping, Electrical, Insulation & Instrumentation		-Oct-12	18-Nov-12	45	29-Mar-13	12-May-13	0%	-176	256				7			F
B-E Tank F				29-Nov-12	130	18-Mar-13 A	,	0 /6	-238	-147						_	F
	B-2E Structural and Builder's Work			29-Nov-12 29-Nov-12	38	18-Mar-13 A			-146	-199							+
A23100	2BE-ABWF works in Tank Farm 2B-2E			29-Nov-12	38	18-Mar-13 A		10%	-146	-199							L
	2B-2E-Electrical				77		25-Jul-13	1076								- 7	T
422840	2BE-BS Cable exposed conduits laying works(Electrical)			03-Oct-12 02-Sep-12	32	10-May-13		0%	-295 -281	-225 -225							ı
A22841	2BE-BS Final connection works(Electrical)	02	-Aug-12	02-3ep-12	14	11-Jun-13	24-Jun-13	0%	-201	-225					'		
422870	2BE-BS Electrical Testing	0.3	Son 12	03-Oct-12	31	25-Jun-13	25-Jul-13	0%	-295	-225							ŧ
	2B-2E-Fire Services	03	-Sep-12	03-001-12				0 /6	-293								ı
A22880	2BE-BS Cable laying works(Fire Services)				53 32	10-May-13 10-May-13		0%		-241 -241							
	2BE-BS Final connection works(Fire Services)				21	11-Jun-13	10-Jun-13 01-Jul-13	0%		-241							ı
422890	2B-2E-Processing Works	10	Aug 12	11-Oct-12	63	13-May-13		0%	-276	-136							ı
	2BE-BDI Pipe Insulation, Process Electrical & Instrumentati					13-May-13		0%				-					ŧ
A22700				11-Oct-12	63			0%	-276	-136							
	ater Treatment Plant			12-Oct-12	70	18-Mar-13 A			-226	-165							Ī,
	NAMED BS legislation of conitors fittings			30-Sep-12	42		24-May-13		-236	-193							
A23655	WWTP-BS Installation of sanitary fittings			22-Sep-12	21	13-Apr-13	,	0%	-223	-193					-		
A23800	WWTP-BS Plumbing and Drainage Testing			30-Sep-12	21		24-May-13	0%	-236	-193							L
WTP-Elect				04-Oct-12	51		07-May-13	000/	-216	-146							J,
A23650	WWTP-BS Lighting installation works	12	-Sep-12	04-Oct-12	20	18-Mar-13 A	· ·	90%	-185	-151						- -	Ţ.
A23651	WWTP-BS Final connection works				21	05-Apr-13	25-Apr-13	0%	<u> </u>	-146		<u> </u>					1
⇒ BL	◆ Milestone	Proposed Bio-Diesel Plant at T.K	.O. Lot 3	9 Main Contr	act for All R	emaining Wo	ks:		Date	Manth D "		/ision			Checked	Appro	ΟV
Actual V	Vork Summary							29-Mai	r-13 <u> </u> 3	ivionth Rolli	ng Programr	me					_
Remaini	ing Work	3 Mont	h Rolli	ing Progra	mme												
Critical F	Remaining Work																
	e Milestone	for FMR	A Renc	ort (29 Mai	r 2013)												

ID	Activity Name		BL Start	BL Finish	Current	Current Start		% Complete	Delay from Initial	Total				2012			2013
					Duration		Finish	Complete	from Initial		N D	J F I	M A N	M J Jul	A S O	N D	J F M
A23680	WWTP-BS Electrical Testing		·	04-Oct-12	22	16-Apr-13	-	0%	-216	-146							
WTP-Fire S	<u> </u>		12-Sep-12		33	<u>'</u>			-225	-193						ļļļ-	
A23900	WWTP-Fire Service Testing			12-Oct-12	33	<u> </u>	24-May-13		-225	-193							
	essing Works		10-Aug-12		30	26-Apr-13	•		-260	-177							
A23700	WWTP-Treatment Installation Testing			08-Sep-12	30		26-May-13	0%	-260	-177					\rightarrow		
A - Jetty			-	19-Nov-12	97	11-Mar-13 A			-208	-185							
	ural and Builder's Work		17-Aug-12		74		25-May-13	10001	-208	-185						ļļļ.	
A24320	4A-Sea Water Pumping House concreting works		-	14-Sep-12	15	13-Mar-13 A			-194						\rightarrow		-
A24500	4A-Jetty Furniture, Lighting Works			29-Oct-12	45	11-Apr-13	25-May-13	0%	-208	-185					-	•	J
	oing and Drainage		15-Sep-12		45	29-Mar-13	12-May-13		-195	-172							T
A24510	4A-BS Piping works(Plumbing)		15-Sep-12	29-Oct-12	45	29-Mar-13	,	0%	-195	-172					-	4	
A24540	4A-BS Piping works(Drainage)				45	29-Mar-13		0%		-172						ļļļ.	
etty-Electri			15-Sep-12		74		23-May-13		-206	-183							
A24520	4A-BS Cable concealed conduits laying works(Electrical)		15-Sep-12	29-Oct-12	59		08-May-13	10%	-191	-183					-	•	- -
A24550	4A-BS Cable exposed conduits laying works(Electrical)				30	29-Mar-13	27-Apr-13	0%		-164							
A24560	4A-BS Final connection works(Electrical)				30	23-Apr-13	23-May-13	0%		-183							
etty-Fire Se				19-Nov-12	79	29-Mar-13	15-Jun-13		-208	-185						ļļļ.	Y
A24530	4A-BS Piping installation works(Fire Services)		15-Sep-12	29-Oct-12	30	29-Mar-13	27-Apr-13	0%	-180	-164							
A24570	4A-BS Sprinkler installation works(Fire Services)				30	29-Mar-13	27-Apr-13	0%		-164							
A24580	4A-BS Cable laying works(Fire Services)				14	21-Apr-13	04-May-13	0%		-157							
A24590	4A-BS Final connection works(Fire Services)				21	28-Apr-13	18-May-13	0%		-164							
\24600	4A-Jetty E&M and FS testing			19-Nov-12	21	26-May-13	15-Jun-13	0%	-208	-185						<u> </u>	
pe Bridge	& Pipe Trench Works		21-Jan-12		70	29-Mar-13	06-Jun-13		-307	-188							Y
25000	Pipe Bridge Between PB and FP (PB3,4)		21-Jan-12	23-Feb-12	30	29-Mar-13	27-Apr-13	0%	-429	-148							
25100	Pipe Trench from WWTP to Jetty		05-Jun-12	03-Aug-12	30	08-May-13	06-Jun-13	0%	-307	-188							
ternal Wo	orks		05-Jul-12	12-Dec-12	115	04-Mar-13 A	26-Jun-13		-196	-118							
xternal Dra	ainage Works		05-Jul-12	03-Aug-12	60	08-Apr-13	06-Jun-13		-307	-188							
Storm wate	er manhole and pipe works		05-Jul-12	03-Aug-12	60	08-Apr-13	06-Jun-13		-307	-188							
A25260	Storm water manhole works 6th stage		05-Jul-12	03-Aug-12	60	08-Apr-13	06-Jun-13	0%	-307	-188				_			
xternal Plu	Imping Works				85	04-Mar-13 A	27-May-13			-196							
	main installation works				85	04-Mar-13 A				-196							
A25580	Installation of external salt watermain 5th stage				55	04-Mar-13 A	27-Apr-13	50%		-196							
A25590	Installation of external salt watermain 6th stage				60	29-Mar-13	27-May-13	0%		-196							
Fresh wate	er main installation works				85	04-Mar-13 A	27-May-13			-196							
A25550	Installation of external fresh watermain 5th stage				55	04-Mar-13 A	27-Apr-13	50%		-196							
A25560	Installation of external fresh watermain 6th stage				60	29-Mar-13	27-May-13	0%		-196							
ire Services					60	04-Apr-13	02-Jun-13			-202							
A25490	External - Fire Services pipe works 6th Stage				60	04-Apr-13	02-Jun-13	0%		-202			1 1				
xternal Ser	rvice Cable Works				60	10-Apr-13	08-Jun-13			-107							
A25730	Exteranl cable duct and draw pits installation works 6th stage	le e			60	10-Apr-13	08-Jun-13	0%		-107							
oad Works	5				90	29-Mar-13	26-Jun-13			-118							
A25650	Road Works with associated surface channels and catch pi	ts 5th stage			60	29-Mar-13	27-May-13	0%		-118							
A25660	Road Works with associated surface channels and catch pi	ts 6th stage			60	28-Apr-13	26-Jun-13	0%		-118							
oundary W	Vall Construction Works		04-Nov-12	12-Dec-12	39	29-Mar-13	06-May-13		-145	-248							†
A25530	Boundary Wall-ABWF works		04-Nov-12	12-Dec-12	39	29-Mar-13	06-May-13	0%	-145	-248				1 1			
ater Suppl	ly Works		01-Jul-12	16-Oct-12	109	29-Mar-13	15-Jul-13		-272	-215							
25700	WSD pipe laying Works		01-Jul-12	16-Sep-12	78	29-Mar-13	14-Jun-13	0%	-271	-214							
 ⊐ BL	♦ Milestone	Proposed Bio-Diesel Plant	at T K O Lot 1	39 Main Cont	ract for All D	emaining Wa	rke		Date		<u> </u>	Revision	<u> </u>		Ch	ecked	Approv
— в∟ ■ Actual V		r roposed Bio-Dieser Plant	αι 1.1 Χ .Ο. LUl .	77 Iviaiii Coill	iaci ioi Ali K	cmaming wo	INO	29-Ma		Month Rolli							
	,	3	Month Roll	ing Progra	ımme				•						•		
	ning Work	3.	vacani Kull	g r rogra													
Critical F	Remaining Work				r 2013)			1									

Page	4	of	4

Activity ID	Activity Name	BL Start	BL Finish	Current	Current Start		%	Delay	Total				20	12			2013	
				Duration		Finish	Complete	from Initial	Float	N D	J F	M	A M J	Jul A	SON	ID,	J F M	A M
A25800	WSD inspection and installation of portable watermeter (WWO46)	17-Sep-12	16-Oct-12	30	16-Jun-13	15-Jul-13	0%	-272	-215									
A25810	WSD inspection and installation of FS watermeter (WWO46)			30	03-Jun-13	02-Jul-13	0%		-202						: ! !			
Works for C	LP Energization	02-Aug-12	31-Aug-12	30	28-Apr-13	27-May-13		-269	-196									
A20060	BR-BS installation of switch board and cable termination works in Switch Rooms	02-Aug-12	31-Aug-12	30	28-Apr-13	27-May-13	0%	-269	-196						1			

BL	♦	◆ Milestone
Actual Work	_	Summary
Remaining Work		
Critical Remaining Work		
◆ Baseline Milestone		

Proposed Bio-Diesel Plant at T.K.O. Lot 39 Main Contract for All Remaining Works

Date

29-Mar-13

Revision
3 Month Rolling Programme

Checked Approved

3 Month Rolling Programme

for EM&A Report (29 Mar 2013)