ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly EM&A Report August 2011 (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.

CINOTECH accepts no responsibility for changes made to this report by third parties

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 27th 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 August 2011.
- 2. The major site activities undertaken in the reporting month included:
 - General site cleaning and tidying.

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, An Environmental Permit No. EP-319/2009 and EP-319/2009/A was 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-RE0401-11) and Wastewater Discharge License (WT00004508-2009).

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		A ation Taken	Chahas	Remark	
Event	Number Nature		Action Taken	Status		
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 July 2011	Submitted to EPD on 15 August 2011	Verified by IEC		
Notifications of any summons & prosecutions	0		N/A	N/A		

Future Key Issues

- 6. Major site activities for the coming two months will include:
 - General site cleaning and tidying;
 - Administration Building RC Superstructure Construction Works;
 - Fat Preparation Building RC Superstructure Construction Works;
 - Steam Boiler Room RC Superstructure Construction Works;
 - Tank Farm 2A Footing concrete works; and
 - Grease Trap Waste Screening Room (GTWSR) Driving works of all sheet piles for ELS.
- 7. The future environmental concerns are air 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 An Environmental Permit (EP) No. EP-319/2009 and EP-319/2009/A was issued on 11 March 2009 and 7 April 2009 respectively for Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate to ASB Biodiesel (Hong Kong) Limited as the Permit Holder.
 - 1.6 Cinotech Consultants Limited was commissioned by ASB Biodiesel (Hong Kong) Limited to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. China Harbour Engineering Company Limited is the Managing Contractor of

the Project. This is the 27th Monthly EM&A report summarizing the EM&A works for the Project in August 2011.

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent ASB Biodiesel (Hong Kong) Limited
 - 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	Environmental Team	Ms. Ivy Tam	Project Coordinator	2151 2090	3107 1388
		Mr. Felix Kwan	Audit Team Leader	2151 2077	
Mannings	Independent Environmental Checker	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	2169 2022
Mannings		Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	3168 2022
		Mr. Peter Chung	Project Manager	9471 2438	
CHEC	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.

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 advic	e on th	ne implementation	n status	of environme	ental protection	n and pollut	ion
	control/ m	itigatior	n measures is sum	marized i	n Section 3 c	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 19th August 2011 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 No general refuse, no Inert Construction and Demolition (C&D) Waste and no Chemical Waste were generated in the reporting month. 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

D '4/I' N	Valid	Period	D 4 3	C4 - 4	
Permit / License No.	From To		Details	Status	
Environmental Permit (EP)	1				
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 Was	l te Producer		<u> </u>		
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid	
Construction Noise Permit (C	NP)				
GW-RE0401-11	02/06/2011	26/11/2011	Use of Powered Mechanical Equipment during 0700-2300 hours on general holidays (including Sundays), 1900-2300 hours on any day not being a general holiday.	Valid	
Wastewater Discharge License	e				
WT00004508-2009	07/09/2009	-	-	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	19/08/2011	Weed in the U-Channel should be cleared to avoid stagnant water.	Follow up action was taken 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 There was no environmental complaint, prosecution or notification of summons 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; and
 - Accumulation of C&D waste and general waste on site.

Construction Program for the Next Month

- 3.2 A tentative construction programme is provided in **Appendix E**. The major construction activities in the coming two months will include:
 - General site cleaning and tidying;
 - Administration Building RC Superstructure Construction Works;
 - Fat Preparation Building RC Superstructure Construction Works;
 - Steam Boiler Room RC Superstructure Construction Works;
 - Tank Farm 2A Footing concrete works; and
 - Grease Trap Waste Screening Room (GTWSR) Driving works of all sheet piles for ELS.

4 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

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

Recommendations

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

Water Quality

- To identify any wastewater discharges from site;
- To avoid accumulation of stagnant and ponding water on site; and
- To clear the drainage channel regularly to prevent blockage;

Air Quality

• To remove fugitive dusty material on the haul road periodically.

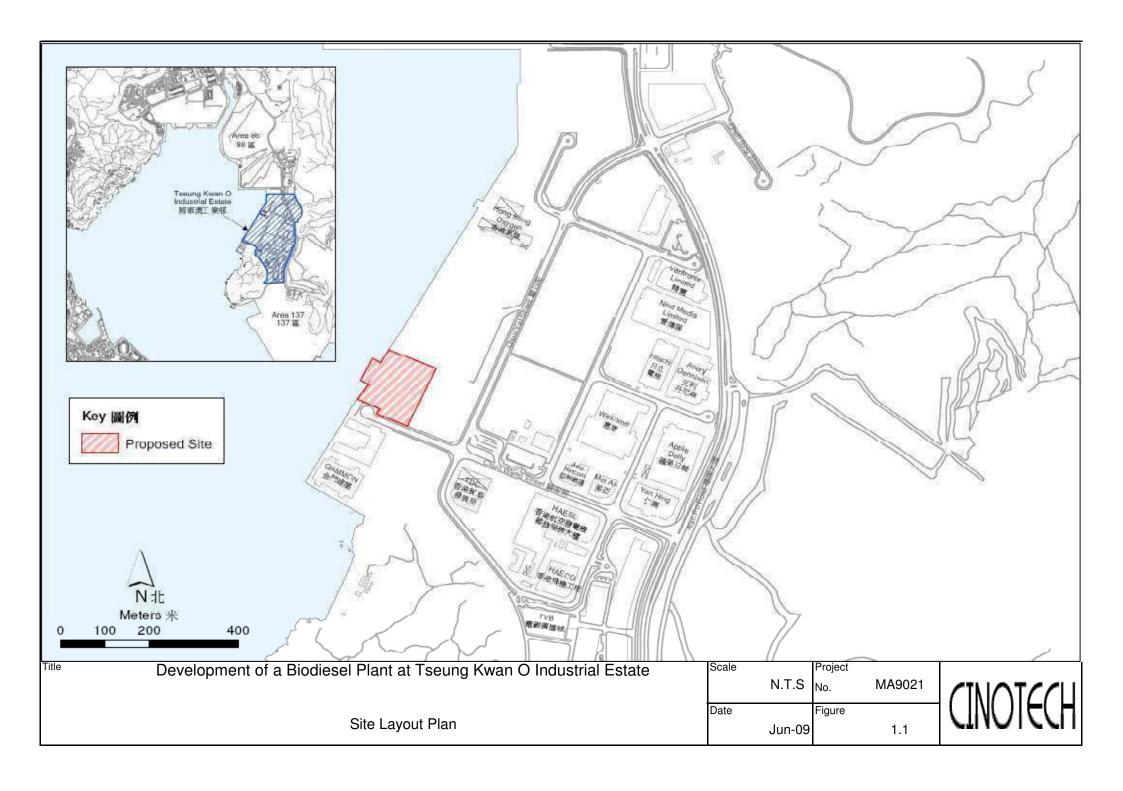
Noise

• To inspect the noise sources inside the site.

Waste / Chemical Management

- To provide proper rubbish bins / skips for waste collection; and
- To avoid and check for any accumulation of waste materials or rubbish on site.

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	110819
Date	19 August 2011 (Friday)
Time	16:05 – 16:25

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

Ref. No. Remarks/Observations **Related Item** No. A. Water Quality · No environmental deficiency was identified during site inspection. 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 • No environmental deficiency was identified during site inspection. F. Reminders • Weed in the U-Channel should be cleared to avoid stagnant water. 110819-R01 B8 & B13 G. Others Follow-up on previous audit section (Ref. No.:110720), No environmental deficiency was identified during site inspection.

	Name	Signature	Date
Recorded by	Felix Kwan	Telix	19 August 2011
Checked by	Dr. HF Chan	Mi	19 August 2011

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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;	٨
	• Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level of the facility during the building construction;	N/A
	 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 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;	^
	 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; 	^
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	^
	 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from onsite construction activities. 	^

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 	N/A
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.	٨
water Quanty	 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. 	٨
	 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. 	۸
	 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. 	^

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. 	N/A
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. 	٨

Remarks: ^

- ^ 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

Appendix C - Monthly Summary Waste Flow Table

Biodiesel Plant Tseung Kwan O Project Reporting Month: <u>August 2011</u>

	Actual	Quantities of Iner	rt C&D Materia	ıls Generated / Im	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	0	0	0.01			
February	0	0	0	0	0	0	0	0	0	0	0.00			
March	0	0	0	0	0	0	0	0	0	0	0.00			
April	0	0	0	0	0	0	0	0	0	0	0.00			
May	0	0	0	0	0	0	0	0	0	0	0.00			
June	0	0	0	0	0	0	0	0	0	0	0.00			
Half-year Total	0	0	0	0	0	0	0	0	0	0	0.01			
July	0	0	0	0	0	0	0	0	0	0	0.00			
August	0	0	0	0	0	0	0	0	0	0	0.00			
September														
October														
November														
December														
Yearly Total														

APPENDIX D COMPLAINT LOG

APPENDIX D - COMPLAINT LOG

Reporting Month: August 2011

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status		
N/A	N/A	N/A	N/A	N/A	N/A		

Remarks: No environmental complaint was received in the reporting month.

APPENDIX E CONSTRUCTION PROGRAMME

HEL CHINA HARBOUR ENGINEERING COMPANY LIMITED

Activity ID	Duration	Activity Name	Start	Finish		Month															
					-7	-6 -5	-4 -3	-2	-1 '	1 2	3	4	5 6	Month	8 9	10 1	1 12	13 1	4 15		7 18 19
C250MC-	90		01-Oct-11	29-Dec-11					-		:	29-	Dec-	11, C25	OMC-	MP (C	omme	nce o	n Oct	11) Ma	aster Pro
Remaining	90		01-Oct-11	29-Dec-11		1 1		1	-		-	29-	Dec-	11, Rer	nainin	g Cons	tructio	n Wo	rks	1	
1A - Admin	30		01-Oct-11	30-Oct-11				1	-	- 30	0-Oct	-11,	1A - A	Adminis	stratio	n Build	nġ				1
Administration	30		01-Oct-11	30-Oct-11				1	-	₹ 30	O-Oct	-11,	Admi	nistratio	on Bui	Iding S	tructu	ral an	d Build	ler's W	/ork
A17000	30	AB-Superstructure Construction Works upto +10.15mPD (1st Floor)	01-Oct-11	30-Oct-11																	
1B - Proces	60		01-Oct-11	29-Nov-11					Y	!	1	1	17	IB - Pro	1	1	-	1	1	1	
Processing Bu	60		01-Oct-11	29-Nov-11				-	<u></u>	-	7 29-	Nov	-11, F	Process	sing B	uilding	Struct	urala	nd Bui	lder's '	Work
A18090	60	PB-Material procurement	01-Oct-11	29-Nov-11				-													
A18100	60	Primary support modification	01-Oct-11	29-Nov-11								-			1					1	
1B - Fat Pr∈	30		01-Oct-11	30-Oct-11					<u></u>	₹ 30	O-Oct	-11,	1B - I	Fat Pre	parati	on Bui	ding				
Fat Preparatio	30		01-Oct-11	30-Oct-11		1 1		1	-	- 30	O-Oct	-11,	Fat P	repara	tion S	tructur	al and	Build	er's W	ork	1
A18510	30	FP-RC superstructure construction works upto +10.4mPD (1st floor)	01-Oct-11	30-Oct-11																	
1B - Boiler	30		01-Oct-11	30-Oct-11				1 1 1	-	₹ 30	0-Oct	-11,	1B - I	Boiler F	Room		1 1 1		1 1 1 1	1	1 1 1
Boiler Room S	30		01-Oct-11	30-Oct-11				1	<u> </u>	- 7 30	0-Oct	-11,	Boile	r Room	Struc	ctural a	nd Bu	ilder's	Work		
A19410	30	BR-RC superstructure construction works 1st stage	01-Oct-11	30-Oct-11																-	
2A - Tank F	30		01-Oct-11	30-Oct-11				-	<u> </u>	₹ 30	O-Oct	-11,	2A -	Tank Fa	arm					i	
Tank Farm 2A	30		01-Oct-11	30-Oct-11		1 1		-	-	- 30	0-Oct	-11,	Tank	Farm 2	A Str	uctural	and B	uilder	's Wor	k	1
A20410	30	2A-1st pour concrete of Tank Farm 2A Footing	01-Oct-11	30-Oct-11																	
2A - GTW S	30		01-Oct-11	30-Oct-11					—	₹ 30	O-Oct	-11,	2A - (GTW S	epara	ition Ro	om				
GTWSR Struct	30		01-Oct-11	30-Oct-11				-	_	₹ 30	O-Oct	-11,	GTW	/SR Str	uctura	al and I	Builde	r's Wo	ork		
A21210	30	GTWSR-Driving works of all sheet pile for ELS	01-Oct-11	30-Oct-11																	
4A - Jetty	90		01-Oct-11	29-Dec-11				1	<u> </u>	-		29-	Dec-	11, 4A -	Jetty		1			1	1
Jetty Structura	90		01-Oct-11	29-Dec-11				1	-	i	-	29-	Dec-	11, Jett	y Stru	ctural a	and Bu	ıilder's	s Work		
A24100	90	4A-Temporary works design for Jetty Piling Submission, Approval and Consent	01-Oct-11	29-Dec-11							1 1 1 1 1 1		1		1	1	1	1		1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Proposed Biodiesel Plant at T.K.O.

Master Programme (Main Contractor Proposal)

Date	Revision	Checked	Approved
11-Apr-11	Main Contractor Proposal		
08-Jun-11	REV.1 - Revised to incorperate Milestone		
17-Jun-11	REV.2 - Added Details		
15-Jul-11	REV.3 - Post Contractors' Meeting		
25-Jul-11	REV.4 - Combined OP Stages, revised Jetty and P		
05-Aug-11	REV.5 - Revised Commencement Date to Oct		