ASB Biodiesel (Hong Kong) Limited

Development of a Biodiesel Plant at Tseung Kwan O Industrial Estate

Monthly EM&A Report September 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.

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TABLE OF CONTENTS

		Page
EXECUTIV	E SUMMARY	1
Introduction.		1
	al Monitoring and Audit Works	
	al Licenses and Permits	
	ion in the Reporting Month	
•	sues	
	DUCTION	
	izations	
	Programme	
•	EM&A Requirements	
2 ENVIR	ONMENTAL AUDIT	6
	ironmental Licensing and Permitting	
	ste Managementon Status of Environmental Mitigation Measures	
-	Complaint and Prosecution	
•	E KEY ISSUES	
	r the Coming Month	
	Program for the Next Month	
	USIONS AND RECOMMENDATIONS	
	tions	
LIST OF TA	BLES	
Table I	Summary Table for Key Information in the Reporting Month	
Table 1.1	Key Project Contacts	
Table 2.1	Summary of Environmental Licensing and Permit Status	
Table 2.2	Observations and Recommendations of Site Audit	
LIST OF FIG	GURE	
Figure 1.1	Site Layout Plan	
LIST OF AP	PENDICES	
Appendix A	Site Audit Summary	
Appendix B	Updated Environmental Mitigation Implementation Schedule	
Appendix C	Waste Generation in the Reporting Month	
Appendix D	Complaint Log	
Appendix E	Construction Programme	

EXECUTIVE SUMMARY

Introduction

- 1. This is the 28th 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 September 2011.
- 2. The major site activities undertaken in the reporting month included:
 - · General site cleaning and tidying; and
 - Bamboo scaffolding at Processing Building replacement works.

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	Ev	ent 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 August 2011	Submitted to EPD on 12 September 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 28th Monthly EM&A report summarizing the EM&A works for the Project in September 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	Selix Kwan Audit Team Leader 215		
Mannings	Independent Environmental Checker	Mr. Mark Cheung	Independent Environmental Checker	3168 2028	3168 2022
Mannings		Mr. Gavin Kwok	Assistant to Independent Environmental Checker	3168 2028	3108 2022
	Contractor	Mr. Peter Chung	Project Manager	9471 2438	
СНЕС		Mr. Simon Li	Ass. Planning Engineer (Environmental Supervisor)	6152 7867	2623 9226
		Mr. Anson Wong	Safety Officer	9656 3837	
		Mr. Johnny So		Graduate Engineer	2623 9292

Construction Programme

- 1.10 The site activities undertaken in the reporting month were:
 - General site cleaning and tidying; and
 - Bamboo scaffolding at Processing Building replacement works.

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 28th September 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 / 3	G4 4	
Permit / License No.	From	То	Details	Status	
Environmental Permit (EP	')				
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;		
shipment of oil facility w		(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 Wa	ste Producer				
WPN-5113-839-C1186-15	12/06/2009	-	Spent Lubrication oil.	Valid	
Construction Noise Permit (C	CNP)				
GW-RE0401-11 02/06/20		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 Licens	se				
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
	28/09/2011	No major environmental deficiency was	
	20,0072011	observed during the site inspection.	

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.

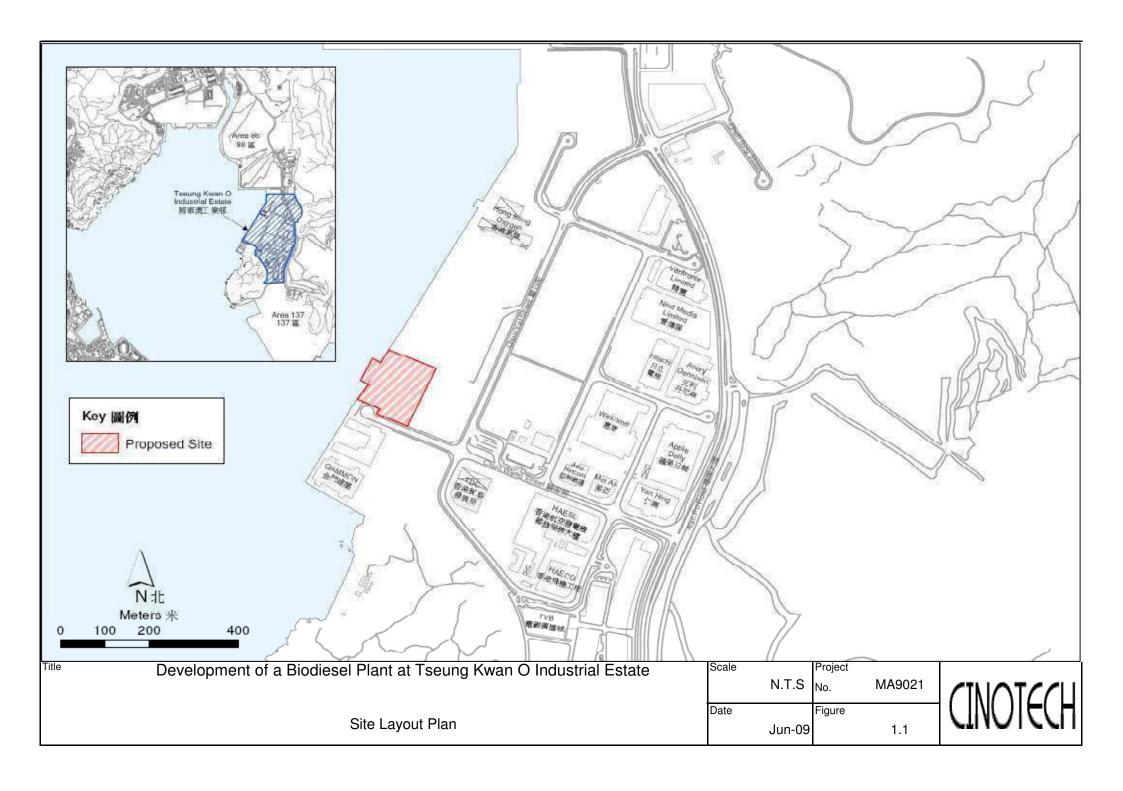
Noise

• 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

Monthly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	110928
Date	28 September 2011 (Wednesday)
Time	11:00 – 11:20

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

Remarks/Observations **Related Item** Ref. No. 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 · No environmental deficiency was identified during site inspection. G. Others Follow-up on previous audit section (Ref. No.:110819): • All environmental deficiencies were improved/rectified by the Contractor.

	Name	Signature	Date
Recorded by	Felix Kwan	Telix	28 September 2011
Checked by	Dr. HF Chan	Ma	28 September 2011
		V , ~ (

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.	۸		
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. 	۸		
	 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						
	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>September 2011</u>

	Actual Quantities of Inert C&D Materials Generated / Imported (in '000 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	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	0	0	0	0	0	0	0	0	0	0	0.00
October											
November											
December											
Yearly Total											

APPENDIX D COMPLAINT LOG

APPENDIX D - COMPLAINT LOG

Reporting Month: September 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

HEC CHINA HARBOUR ENGINEERING COMPANY LIMITED

ID Activity Name		Duration	Start	Finish		
					Month	
ALIA III /A		00	04 Nov. 44	00 D - 14	-7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 1 1 1 1 1 1 1 1	
C250MC-MP (Commence on Nov 11) Master Programme			U1-NOV-11	30-Dec-11	V Su-Dec-11, GZSUNG-WIF (Commence of thov 11) Waster F10	
Remaining Construction Works		60	01-Nov-11	30-Dec-11	30-Dec-11, Remaining Construction Works	
1A - Administration Building		30	01-Nov-11	30-Nov-11	▼ 30-Nov-11, 1A - Administration Building	
Administration Building Structural and Builder's Work		30	01-Nov-11	30-Nov-11	▼ 30-Nov-11, Administration Building Structural and Builder's Work	
17000	AB-Superstructure Construction Works upto +10.15mPD (1st	30	01-Nov-11	30-Nov-11		
	Floor)					
1B - Process Building		60	01-Nov-11	30-Dec-11	30-Dec-11, 1B - Process Building	
Processing Building Structural and Builder's Work			01-Nov-11	30-Dec-11	▼ 30-Dec-11, Processing Building Structural and Builder's Work	
7 11					▼ 30-Nov-11, 1B - Fat Preparation Building	
· · · · · · · <u> </u>					▼ 30-Nov-11, Fat Preparation Structural and Builder's Work	
					30-1107-11, Fat Freparation Structural and Bullder's Work	
18510	floor) floor	30	01-Nov-11	30-Nov-11		
1B - Boiler Room			01-Nov-11	30-Nov-11	y──y 30-Nov-11, 1B - Boiller Room	
Boiler Room Structural and Builder's Work		30	01-Nov-11	30-Nov-11	▼ 30-Nov-11, Boiler Room Structural and Builder's Work	
19410	BR-RC superstructure construction works 1st stage	30	01-Nov-11	30-Nov-11		
2A - Tank Farm		30	01-Nov-11	30-Nov-11	V──V 30-Nov-11, 2A - Tank Farm	
Tank Farm 2A Structural and Builder's Work			01-Nov-11	30-Nov-11	▼ 30-Nov-11, Tank Farm 2A Structural and Builder's Work	
20410	2A-1st pour concrete of Tank Farm 2A Footing	30	01-Nov-11	30-Nov-11		
2A - GTW Separation Room		30	01-Nov-11		▼ 30-Nov-11, 2A - GTW Separation Room	
GTWSR Structural and Builder's Work					y─y 30-Nov-11, GTWSR Structural and Builder's Work	
A21210 GTWSR-Driving works of all sheet pile for ELS						
	Administration Administration Administration Building Structural Barron Bui	OMC-MP (Commence on Nov 11) Master Programme laining Construction Works Administration Building Inistration Building Structural and Builder's Work 7000 AB-Superstructure Construction Works upto +10.15mPD (1st Floor) Process Building lessing Building Structural and Builder's Work 8100 Primary support modification Pat Preparation Building Preparation Structural and Builder's Work 8510 FP-RC superstructure construction works upto +10.4mPD (1st floor) Boiler Room Process Building Preparation Structural and Builder's Work 8510 BOILER Superstructure construction works upto +10.4mPD (1st floor) BOILER ROOM PROOM BR-RC superstructure construction works 1st stage Tank Farm Lefarm 2A Structural and Builder's Work 0410 2A-1st pour concrete of Tank Farm 2A Footing GTW Separation Room VSR Structural and Builder's Work	OMC-MP (Commence on Nov 11) Master Programme Staining Construction Works Administration Building Structural and Builder's Work ON AB-Superstructure Construction Works upto +10.15mPD (1st Floor) Process Building Structural and Builder's Work 8100 Primary support modification Fat Preparation Building Preparation Structural and Builder's Work 8510 FP-RC superstructure construction works upto +10.4mPD (1st floor) Boiler Room FROOD Structural and Builder's Work BR-RC superstructure construction works 1st stage Tank Farm STAIN STRUCTURAL AND BUILDER'S WORK ON TAIN FARM ON	OMC-MP (Commence on Nov 11) Master Programme	OMC-MP (Commence on Nov 11) Master Programme	

Actual Work

Remaining Work

Critical Remaining Work

Critical Milestone

Milestone

Summary

Proposed Biodiesel Plant at T.K.O.

Master Programme (Main Contractor Proposal)

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