



UMS
UNIVERSITI MALAYSIA SABAH

WATER ANALYSIS LABORATORY

CUSTOMER CONTRACT FORM

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BAHAGIAN I: BUTIRAN PEMOHON (Diisi oleh pelanggan)

PART I: APPLICANT'S PARTICULARS (To be filled by customer)

Kategori Pemohon : Dalam / UMS Luar / Swasta
Category of Applicant Internal / UMS External / Private

1. Nama Pemohon : Applicant's Name	2. Jawatan : Position
3. No. Kad Pengenalan / Pasport : Identity Card or Passport No.	
4. JFPIU UMS/Jabatan/Syarikat : DFPIU UMS / Department / Company	
5. No. Tel. (Pejabat/TB) : Tel. No. (Office/HP)	6. E-mel : E-mail
7. Tarikh Analisis Dipohon : Date of Analysis Requested	8. Tarikh Laporan Diperlukan : Date of Report Required
9. Nama Penyelia (Jika pelajar) : Supervisor's Name (If student)	
10. Tajuk Projek Penyelidikan : Research Project Title	
11. No. Geran : Grant No.	

BAHAGIAN II: BUTIRAN SAMPEL

PART II: SAMPLE DETAILS

Nombor Ujikaji: **WRU/WE**
Lab Number

Maklumat Sampel:
Sample Description

Air Water Efluen Kilang Kelapa Sawit Palm Oil Mill Effluent Air Sisa (Terawat) Wastewater (Treated) Air Sisa (Tidak Terawat) Wastewater (Raw-Untreated)

Bil. No.	Tanda Sample Sample Marking	Bil. No.	Tanda Sample Sample Marking	Bil. No.	Tanda Sample Sample Marking
1					
2					
3					
4					
5					
6					

Arahan Pelanggan*:
Customer's Order

* Sila lihat Bahagian III untuk butiran analisis dan bilangan sampel
Please see Part III for the analysis details and quantity of sample

Tandatangan Pelanggan
Customer's Signature

Tarikh
Date

Keadaan Sampel:
Sample Condition

Diterima oleh:
Received by

Tandatangan
Signature

Tarikh
Date

Disemak oleh:
Reviewed by

Tandatangan
Signature

Tarikh
Date



CUSTOMER CONTRACT FORM

BAHAGIAN III: SEBUT HARGA

PART III: QUOTATION

Nombor Ujikaji:

WRU/WE

Lab Number

Parameter Analisis Analysis Parameter	Kaedah / Teknik Ujian Test Method / Technique	Harga per Parameter Price per Parameter (RM)	Bil. Qty.	Jumlah Total (RM)
pH	*APHA 4500-H ⁺ B, 2012 / YSI ProDSS	8		-
Temperature (°C)	In House / YSI ProDSS	8		-
Salinity	YSI ProDSS	12		-
Electrical Conductivity (EC)	YSI ProDSS	12		-
Turbidity	YSI ProDSS / HACH 2100Q	12		-
Dissolved Oxygen (DO)	APHA 4500-O C, 2012 / YSI ProDSS	12		-
Ammoniacal Nitrogen (NH ₃ -N)	APHA 4500-NH ₃ C, 2012 / DOE Method, 2002 / HACH 8155	28		-
Total Nitrogen	DOE Method, 2011	36		-
Organic Nitrogen / Total Kjeldahl Nitrogen	APHA 4500-N _{org} B, 2012	36		-
Total Suspended Solid (TSS)	*APHA 2540 D, 2012 / *DOE Method, 2011	24		-
Biochemical Oxygen Demand, 5 days at 20°C (BOD ₅)	APHA 5210 B, 2012	32		-
Biochemical Oxygen Demand, 3 days at 30°C (BOD ₃)	DOE Method, 2011	32		-
Chemical Oxygen Demand (COD)	*APHA 5220 D, 2012 / *DOE Method, 2011 / HACH 8000	32		-
Oil and Grease	DOE Method, 2011	40		-
Total Chlorine	HACH 8167	28		-
Free Chlorine (Cl ₂)	HACH 8021	28		-
Chloride (Cl ⁻)	HACH 8113	28		-
Colour, Apparent	HACH 8025	24		-
Colour, True	HACH 8025	24		-
Colour, ADMI	HACH 10048	24		-
Cyanide (CN ⁻)	HACH 8027	32		-
Formaldehyde (CH ₂ O)	HACH 8110	160		-
Nitrate (NO ₃ ⁻ N)	HACH 8039	28		-
Nitrite (NO ₂ ⁻ N)	HACH 8507	32		-
Orthophosphate (PO ₄ ³⁻)	HACH 8048	28		-
Sulphate (SO ₄ ²⁻)	HACH 8051	32		-
Sulphide (S ²⁻)	HACH 8131	32		-
Chromium (Cr), Hexavalent	HACH 8023	28		-
Chromium (Cr), Total	HACH 8024	28		-
Iron, Ferrous (Fe ²⁺)	HACH 8146	28		-
Iron (Fe), Total	HACH 8008	28		-
Metals:				
List the metals to be analyzed	APHA 3111 B / APHA 3120 B, 2012	32 per metal		-
List the metals to be analyzed				-
To be subcontracted to SAMM accredited company:				
List the test	List the method	0 †		-
List the test	List the method	0 †		-
Other charges:				
Rental: YSI ProDss multimeter	In House / YSI ProDSS	100 sehari		-
DO meter	APHA 4500-O G	50 sehari		-
Delivery	N/A	60		-
Chemist consultation fees (RM50-100 per hour)	N/A	50		-

Caj Keseluruhan (RM)

0.00 †

Total Charge (RM)

* Test accredited by SAMM † Price provided by the subcontractor

† Please make full payment by cash prior to analysis; or by cheque/online transfer / purchase order payable to "UNIVERSITI MALAYSIA SABAH" (MBS account: 5100-130-22413) with following transfer details: UPA PR 00119

BAHAGIAN V: PERAKUAN KETUA JABATAN PEMOHON / KETUA PROJEK / PENYELIA / PEMOHON

PART V: VERIFICATION FROM HEAD OF DEPARTMENT / PROJECT / SUPERVISOR / CUSTOMER*

Saya bersetuju / tidak bersetuju membiayai kos perkhidmatan tersebut secara
I agree / disagree to fund the service charge above by

Tunai / Cek / PO / Sumber peruntukan:

Cash / Cheque / PO / Source of fund

Ulasan:

Remark

Tandatangan
Signature

Tarikh
Date

* Part V can be omitted if customer has paid by cash or cheque.

PENGESAHAN BAYARAN

PAYMENT VERIFICATION

Bayaran : Tunai Cek
Payment Cash Cheque

Amaun diterima:

Amount received

Tandatangan
Signature

Tarikh
Date

BAHAGIAN V: KELULUSAN UNIT PENYELIDIKAN AIR, FAKULTI SAINS DAN SUMBER ALAM

PART V: APPROVAL FROM WATER RESEARCH UNIT, FACULTY OF SCIENCE AND NATURAL RESOURCES

Pemohonan pelanggan adalah
The customer's application is

Diluluskan
Approved

Ditolak
Rejected

Di bawah pertimbangan
Kept in view

Ulasan:

Remark

Tandatangan
Signature

Tarikh
Date