

Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	Chemsains Konsultant Sdn Bhd, Kemaman Lot PT 21702, Jalan Kubang Kurus, Kawasan Perindustrian Jakar 2, 24000 Kemaman, Terengganu, Malaysia , 24000, TERENGGANU MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Chemsains Konsultant Sdn Bhd, Kemaman Lot PT 21702, Jalan Kubang Kurus, Kawasan Perindustrian Jakar 2, 24000 Kemaman, Terengganu, Malaysia , 24000, Terengganu
FIELD(S) OF TESTING :	CHEMICAL, MECHANICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Biodiesel Blend E	Flash point	ASTM D 93-20 (Procedure A)
	Density, Specific Gravity, API Gravity	ASTM D1298 12b (Hydrometer Method)
	FAME Content	EN 14078-2002 (by FTIR)
Environmental Monitoring Industrial Effluent E Sewage Water E Wastewater E	Temperature	APHA 2550 B, 2005 APHA 2550 B, 2017
	pH Value	APHA 4500-H+ B, 2005 APHA 4500-H+ B, 2017
	Conductivity	APHA 2510 B, 2017
	Turbidity	APHA 2130 B, 2005 APHA 2130 B, 2017
	Total Solids	APHA 2540 B, 2017

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	Total Dissolved Solids	APHA 2540 C, 2017
	Total Suspended Solids	APHA 2540 D, 2005 APHA 2540 D, 2017
	Oil and Grease	APHA 5520 B, 2005 APHA 5520 B, 2017
	Oxygen (Dissolve)	APHA 4500-0 G, 2005 APHA 4500-0 G, 2017
	Oxygen (Dissolve)	APHA 4500-0 C, 2005 APHA 4500-0 C, 2017
	None	APHA 5210 B, 2005 & APHA 4500-
	Chromium Trivalent	In House Method 0508, Based on APHA 3500 Cr B
	Salinity	APHA 2520 B, 2017
	Chloride	APHA 4500 Cl B, 2017
Environmental Monitoring Noise E	Measurement of Environmental Noise Levels	ISO 1996-1:2016 & ISO1996-2:2017
Environmental Monitoring Wastewater E	pH	APHA 4500 H* B 2005 APHA 4500 H* B 2017
	Temperature	APHA 2550 B, 2005 APHA 2550 B, 2017
	Free, Combined and Total Oxygen (Dissolved)	In House Method 0501, Based on APHA 4500 O H, 2017 APHA 4500 O G, 2017
Estuarine Water Drinking Water	Oxygen (Dissolved)	APHA 4500 O H, 2017 APHA 4500 O G, 2017
Estuarine Water Potable & Domestic Water Drinking Water	Total Solids	APHA 2540 B, 2017
	Total Dissolved Solids	APHA 2540 C, 2017
	Total Suspended Solids	APHA 2540 D, 2017
	Oil and Grease	APHA 5520 B, 2017
	Oxygen (Dissolve)	APHA 4500-0 G, 2017
	Oxygen (Dissolve)	APHA 4500-0 C, 2017
	Biochemical Oxygen Demand	APHA 5210 B, 2017 & APHA 4500-0 G, 2017
	Chemical Oxygen Demand	APHA 5220 C, 2017
	Formaldehyde	In-House Method 0527, Based on AOAC 931.08
Lube Oil/hydraulic Oil E	Sulphide	APHA 4500 S D, 2017
	Kinematic Viscosity at 40 deg and 100 deg	ASTM D445-19
	Flash Point	ASTM D93-20
	Rust Test	ASTM D665-14e1
	Water Content	ASTM D6304-20
	Density, Relative density and API Gravity	ASTM D4052-18
	Water	ASTM D 4928-12
Non-alcohol Resistant E Foam Concentrates (low Expansion)	Flash Point	ASTM D 93-20 (Procedure A)
	90% Control, Extinction and Burn-back Time for surface application to water immiscible liquids	In-house method 6043, Based on Def Stan 42-40/2, Annex C-2002

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Others Foam Concentrates E	Foam expansion and 25 % Drainage Time	In-house method 6044, Based on IMO MSC. 1 CIRC 1312, Clause 3.7 & 3.8
	Spreading Coefficient at 20 deg	EN 1568-3, Annex F with reference to ISO 304:1985
	Specific Gravity @ 20 °C	IMO MSC 1 CIRC. 1312, Clause 3.11 (ASTM D 1298-12b)
	Viscosity @ 20 °C	IMO MSC 1 CIRC. 1312, Clause 3.4.1 (ASTM D 445-19)
	pH value @ 20°C	APHA 4500-H* B, 2017
	Refractive Index @ 20 °C	In House Method 5998, Based on ASTM D1218-12
Petroleum & Petroleum Products Crude Oil E	Density, Specific Gravity and API Gravity	ASTM D1298 12b (Hydrometer Method)
	Kinematic Viscosity	ASTM D445-19
	Water	ASTM D 4928-12
	Flash Point	ASTM D 93-20 (Procedure A)
	Density and Relative Density	ASTM D5002-19
	Crude Composition C1-C36+	In-House Method 0522, Based on ASTM D5442-08
	Water and Sediment	ASTM D4007-16e1
	Density and Relative Density Light Hydrocarbon C1 to C6+	ASTM D 5002-19 By Digital Density Analyzer (2010)
Petroleum & Petroleum Products Natural Gas E	Composition Analysis C1 -" C12+	GPA 2286-14
	Calorific Value, Density, Relative Density and Wobbe Index	ISO 6976:2005
Scheduled Waste E (spent Lubricating Oil/ Spent Hydraulic Oil/ Liquid Waste)	Flash Point	USEPA 1010-04
Site Testing	Site Testing	Site Testing
Vibration E	Vibration level	In House Method 0591, Based on Manufacturing Instrumentation
Water Ground Water Surface Water River Water Marine Water Formation Water	Temperature	APHA 2550 B, 2017
	pH Value	APHA 4500-H+ B, 2017
	Conductivity	APHA 2510 B, 2017
	Turbidity	APHA 2130 B, 2017
	pH	APHA 4500 H* B 2017
	Temperature	APHA 2550 B, 2017
	Free, Combined and Total Residual Chlorine	In House Method 0501, Based on Palintest comparator
Water Ground Water Surface Water River Water Marine Water Formation Water Estuarine Water Potable & Domestic Water Drinking Water	Free, combined and Total Residual Chlorine	In-House Method 0501, Based on Palintest
	Fixed Solids and Volatile Solids	APHA 2540 E, 2017
	Oil and Grease (Emulsified Edible)	In-House Method 6039, Based on APHA 5520 B & F 2017
	Oil and Grease (Mineral)	APHA 5520 F 2017
	Total Cyanide	APHA 4500-CN C & F, 2017
	Phenol	APHA 5530 B & F, 2017

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SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Ambient Air E	Total Suspended Particulates	AS/NZS 3580 9.3: 2015
	PM10	AS/NZS 3580.9.6 2015
	PM2.5	AS/NZS 3580.9.14 2013
	Nitric Acid (HNO ₃)	None
	Antimony (Sb)	OSHA Method ID-125G
	Total Suspended Particulate	AS/NZS 3580.9.3 (2015)
	PM10	AS/NZS 3580.9.6 2015
Environmental Monitoring	None	None
	None	None
	None	None
	Boron	APHA 4500-B C, 2005 APHA 4500-B C, 2017
	Sulphide	APHA 4500- D, 2005 APHA 4500- D, 2017
	Metal Analysis by ICP-OES	None
	Hydrocarbon	APHA 5520 F 2005
	None	None
	Hydrogen Bromide (HBr)	OSHA Method ID-165SG
	Temperature	APHA 2550 B, 2005
	None	None
	None	None
	Formaldehyde	In-house Method C/WTR/012
	None	None
	Aluminium	None
	Aluminium	None
	Nickel	APHA 3120 B, 24" Edition
	pH	APHA 4500 H*B
	pH	APHA 4500 H*B
	None	None
	None	None
	None	None
	COD	APHA 5220 D
	Heavy Metals	None
	Moisture	EPA Method 9000 (Karl Fischer Titration)
	None	EPA Method 1010 A
	None	Information Circular 8333,
	Total Bacteria Count	Compendium of Methods for the
	Aerobic Plate Count	In-house swab contact method
	None	None
	None	None
	None	None

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	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Field Sampling And Testing	Field Sampling and Testing	Field Sampling and Testing

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