

Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	ASEAN Bintulu Fertiliser Sdn. Bhd. 18 KM, Tanjung Kidurong 97008 Bintulu, Sarawak , 97008, SARAWAK MALAYSIA
	
ACCREDITED SINCE :	19 MARCH 2025
FIELD(S) OF TESTING:	CHEMICAL

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:	ASEAN Bintulu Fertiliser Sdn. Bhd. 18 KM, Tanjung Kidurong 97008 Bintulu, Sarawak , 97008, Sarawak
FIELD(S) OF TESTING :	CHEMICAL,

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Ammonia	Oil and Grease (ppmw)	QAI-LABTEST-002 ABF In-house method: Adopted from UKF0013-E Operating Manual, Volume 7, 1983
	Water (% wt) Ammonia (% wt) ? by calculation	QAI-LABTEST-115 The Fertilizer Sampling and Analytical Methods Fourth Edition, Method II.E.1 The Fertilizer Institute Product Quality Committee USA, 1982
Urea Granules	Sampling	Sampling and Analytical Methods, Edition 1982, Method J.C.1 The Fertilizer Institute Product Quality Committee USA

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Sampling	QAI-LABTEST ? 011 Method B In-house method based on Fertilizer
	Biuret (%)	QAI-LABTEST-206 In-house method: Adopted from DSM-135-E, 135-23-E, 382-E (Spectrophotometric Method) and from Official Method of Analysis AOAC International 18 Edition, Method 960.04, 2005
	Formaldehyde (% wt)	QAI-LABTEST-213 In-house method: Adopted from NSM Method (Nederlandse Stikstof Maatschappij B.V) Sluiskil
	Moisture / Water (% wt)	QAI-LABTEST-209 In-house method: Based on DSM-805- E or Fertilizer Sampling and Analytical Method, Fourth Edition, Method II-D.4 by The Fertilizer Institute Product Quality Committee, USA, 1982
	Size (% wt) Size Guide Number (SGN) Uniformity Index (UI)	QAI-LABTEST-211 In-house method: Adopted from NSM Method (Nederlandse Stikstof Maatschappij B.V) Sluiskil & from Fertilizer, Sampling & Analytical Method, Fourth Edition, Method IV.A by Institute Product Quality Committee, USA, 1982
	Total Kjeldahl Nitrogen (wt) Total Nitrogen (Dry)	QAI-LABTEST-210 A&B In-house method: Based on DSM-201- E (Total Kjeldahl Nitrogen Method) & from Official Method of Analysis of AOAC Edition, Method 955.04, 2005
Water And Waste Water	Temperature (In situ)	QAI-LABTEST-030 Adopted from APHA Method 2550B, 23" Edition, 2017
	pH 1-14	QAI-LABTEST-013
	Specific gravity & Density (g/cm)	QAI-LABTEST-036 In-house method based on Anton Paar Handbook, DMA 35N Portable Density/Specific Gravity Meter
	Conductivity (uS/cm)	QAI-LABTEST-020 In-house method based on APHA 2510 A & B, 23 Edition, 2017
	Phosphate as Orthophosphate	QAI-LABTEST-017 In-house method based on APHA 4500-P C, 23" Edition, 2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Chloride (mg/l)	QAI-LABTEST-010 In-house method based on APHA 4500-CI B, 23 Edition, 2017 & UDHE A.1.11.3
	Silica (mg/l)	QAI-LABTEST-008 In-house method based on APHA 4500-Si D & E, Edition, 2017
	Acidity and alkalinity (mg/l as	QAI-LABTEST-004 In-house method based on APHA 2310 B & 2320 B, 23" Edition, 2017
	Ammonia- Nitrogen (mg/l)	QAI-LABTEST-001 In-house method based on ASTM 1426A, Vol 11.01.1997
	Metals Fe (mg/l) K (mg/l) Ca (mg/l) Mg (mg/l) Mn (mg/l) Cu (mg/l) Cd (mg/l) Cr (mg/l) Pb (mg/l) Ni (mg/l) Zn (mg/l) Na (mg/l) As (mg/l)	QAI-LABTEST ? 708 APHA 3120 B, 234 Edition, 2017 ASTM Volume 03.05, 2003, E 1479
	Mercury (ppb)	QAI-LABTEST-703 ?Method C? In-house method based on APHA 3112 B, 23" Edition, 2017
	Oil & Grease (mg/l)	QAI-LABTEST-002 In-house method based on APHA 5520 C, 23" Edition, 2017
	Free Residual Chlorine (FRC) (mg/l) (In situ)	QAI-LABTEST-027 In-house method based on APHA 4500-CI G, 23? Edition, 2017
	Total Suspended Solids (TSS) dried at 103 ?C ? 105 ?C	QAI-LABTEST-005 In-house method based on APHA 2540 D, 23? Edition, 2017
	Chemical Oxygen Demand (COD)	QAI-LABTEST-003 In-house method based on APHA 5220 C & D, 23" Edition, 2017
Biochemical Oxygen Demand	QAI-LABTEST-035 In-house method based on APHA 5210 B,23" Edition, 2017	
Waste Water Raw Water Condensate Cooling Water	Chloride (mg/l) Nitrite (mg/l) Nitrate (mg/l) Sulphate (mg/l)	QAI-LABTEST-058 APHA 4110 B 23" Edition, 2017 (Ion Chromatography)
Benfield Solution	Potassium Carbonate, Potassium Bicarbonate & Total Carbonate (%)	QAI-LABTEST-123 In-house based on UOP Method R- 100D Rev 1
	Total Suspended Solids (mg/l)	QAI-LABTEST-123 In-house method based on APHA 2540 D, 23 Edition, 2017
	Vanadium (%)	QAI-LABTEST-123 In-house method based on Method UDHE A.38.6.4

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Urea Solution	Ammonia (NH ₃) and Carbon Dioxide (CO ₂) (% NH ₃ & % CO ₂)	QAI-LABTEST-204 In-house method based on DSM 648- 10 E & APHA 4500-CO ₂ C&D, Edition, 2017
Water / Urea Solution	Urea (ppm to %)	MS 417: Part 3: 1994
	Urea (ppm to %)	QAI-LABTEST-205 A, B In-house method DSM 0210-03-E &
Lube Oil	Total Acid Number	QAI-LABTEST ? 043 ASTM D 664-01
	Kinematic Viscosity (cSt)	QAI-LABTEST ? 040 In house method based on ASTM D445-03 & D446-00
Emission Air	SO _x (mg / NO _x (mg / Nms)	QAI-LABTEST ? 022 Bacharach Combustion Analyser Model ECA 450 Operating & Service Manuals
Emission, Air And Gas	Urea Dust (mg/NM?)	QAI-LABTEST-324 Adopted from ASTM D3685/3685M-92
Gas	Gas Composition : Natural Gas and other gaseous components : Argon : (% mole) Nitrogen : (% mole) Methane : (% mole) Ethane : (% mole) Propane : (% mole) i-Butane : (% mole) n-Butane : (% mole) i-Pentane : (% mole) n-Pentane : (% mole) Hexane + : (% mole) Hydrogen : (% mole) Oxygen : (% mole) Carbon Dioxide : (ppm to % mole) Carbon Monoxide : (ppm to % mole)	QAI-LABTEST-100 In-house Method by Gas Chromatography Applicable Equipment Manual
Urea Formaldehyde Solution	Formaldehyde (%) Water (%)	None
	Urea (%) Appearance pH SG	QAI-LABTEST-401 In-house method based on Borden Chemical
Sodium Hydroxide	NaOH (%) NaCO ₃ (%) Chloride (%) Silica (ppm)	008-?Analysis of Silica?
	NaOH (%) NaCO ₃ (%) Chloride (%) Silica (ppm)	QAI-LABTEST-407 In-house method based on JIS K 1200-1968 and ABF Test Method : QAI-LABTEST-010- ?Chloride in Water? and QAI-LABTEST-
Sulphuric Acid	Appearance H ₂ S ₀₄ (%) Chloride (%)	QAI-LABTEST-410 In-house adopted from ABF Test Method : QAI-LABTEST-004 ?Alkalinity and Acidity of Water?, QAI-LABTEST-010- ?Chloride in Water

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Liquid Or Solution Of Multiphase And Single Phase Liquids At Elevated And Medium Temperature And Pressure	Sampling	QAI-LABTEST ? 011 Method C In-house method based on DSM M-3E, APHA 1060 B and Sampling and Analytical Methods, Edition 1982 Method ?1.B.4.a The Fertilizer Institute Product Quality Committee USA, 1982
Procured Chemicals	Sampling	QAI-LABTEST ? 011 Method D In-
From Shore Tanks, Semi Bulks, Drums And Carboys	Sampling	house method based on ASTM E 300- 92 Sampling industrial Chemicals ? Simple Liquid Product Quality Committee USA
Anhydrous Liquid Ammonia	Sampling	Fertilizer Sampling and Analytical Methods, Edition 1982, Method 1 The Fertilizer Institute
	Sampling	QAI-LABTEST ? 011 Method A In-
	Sampling	house method based on

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