

# COMPANY PROFILE

MS ISO/IEC 17025:2017 SAMM 084

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www.environment.com.my



### **OUR COMPANY BACKGROUND**



A&A Scientific Resources Sdn Bhd manages the operations of the UiTM - A&A Laboratory, which received accreditation from the Department of Standards Malaysia (DSM) on 24th November 1995 under the Laboratory Accreditation Scheme of Malaysia (SAMM), MS ISO/IEC 17025.

Formed through a partnership with Universiti Teknologi MARA in September 2005 via the Faculty of Chemical Engineering, the UiTM-A&A Laboratory provides environmental and health sampling and testing services to consultancy companies, various industries, government bodies, private companies, and universities.

Upholding the highest ethical standards and dedication to excellence in all operational aspects, it strives to exceed customer expectations

The management and employees of UiTM-A&A Laboratory are guided by our Quality Policy in all decisions and actions on a daily basis. Our goal is to provide the following:

- Striving to meet or exceed our customers' needs and satisfaction.
- Maintaining a trustworthy and ethical work environment that supports long-term employment, development, and growth.
- Equipping employees with the necessary training and tools to perform their jobs efficiently.
- Providing the resources and personal support needed for the successful implementation of our MS ISO/IEC 17025:2017 Quality System and Quality Objectives.
- Continuously improving in all aspects.

#### Schedule

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LABORATORY LOCATION: (PERMANENT LABORATORY)

**UiTM - A & A LABORATORY** A&A SCIENTIFIC RESOURCES SDN. BHD. BANGUNAN MAKMAL PENYELIDIKAN ALAM KOLEJ KEDIAMAN KENANGA 2, ZON C,

JALAN BERNAS 1/10 D. UNIVERSITI TEKNOLOGI MARA, 40450 SHAH ALAM,

SELANGOR.

FIELD(S) OF TESTING: CHEMICAL, MECHANICAL & MICROBIOLOGICAL

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).

#### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring		
Industrial Effluent- Waste Water	рH	APHA 4500 - H*B (2023)
Water Water- River Water, Drinking	Temperature	APHA 2550 (2023)
Water, Ground Water	BOD₅	APHA 5210B (2023)
	COD	APHA 5220B (2023)
	Ammoniacal Nitrogen	APHA 4500-NH₃ B (2023)
	Total Suspended Solids	APHA 2540 D (2023)
	Total Solids	APHA 2540 B (2023)
	Oil and Grease	APHA 5520 B, D (2023)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring		
Industrial Effluent- Waste Water	Dissolved Oxygen	APHA 4500 - O G (2023)
(continued)  Water Water- River Water, Drinking Water, Ground Water (continued)	Cadmium Copper Iron Nickel Lead Manganese Zinc	APHA 3111-B, APHA- 3030 F (2023)
	Boron	APHA 4500 – B C (2023)
	Arsenic	APHA 3114 - B (2023)
	Chromium (VI)	APHA 3500 - Cr B (2023)
	Phenol	APHA 5530 A, B, C (2023)
	Cyanide	APHA 4500-CN, C, D (2023)
	COD, Closed Reflux	APHA 5220 C, (2023)
	Silver (Ag)	APHA 3111-B, (2023) APHA 3011-B, (2023)
	Selenium (Se)	APHA 3500-Se C, (2023)
	Formaldehyde	In-house Method LTM 1.18 based on Merck Application Note, UV-Vis Spectroscopy by Christopher Lynch, Perkin Elmer USA (2009)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Industrial Effluent- Waste	Color	APHA 2120 F, (2023)
Water (continued)	Nitrite, NO <sub>2</sub> -	APHA 4500- NO <sub>2</sub> - B, (2023)
Water Water- River Water, Drinking Water, Ground Water (continued)	Nitrate, NO <sub>3</sub> -	APHA 4500- NO <sub>3</sub> - B (2023)
	Chloride	APHA 4500 - Cl <sup>-</sup> B (2023)
	Fluoride	APHA 4500 - F <sup>-</sup> D (2023)
	Chlorine (Residual)	APHA 4500 - CI B (2023)
	Phosphorus	APHA 4500 – P B, C (2023)
	Potassium	АРНА 3500 - К В (2023) АРНА 3030 - В (2023)
	Sodium	APHA 3500 - Na B (2023) APHA 3030 - B (2023)
	Sulphide	APHA 4500 - S <sup>2-</sup> C (2023) APHA 4500 - S <sup>2-</sup> F (2023)
	Mercury	APHA 3112 - B (2023)
	Turbidity	APHA 2130 - B (2023)
	Total Chromium	АРНА 3111 - В(2023) АРНА 3030 - F(2023)
	Calcium & Calcium Hardness	APHA 3500 - Ca B (2023)
	Hardness	APHA 2340 - C (2023)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring	Managaritan	ADILA 2500 Ma D (2022)
Industrial Effluent- Waste Water	Magnesium Sulphate	APHA 3500 - Mg B (2023)  APHA 4500 - SO4 <sup>2</sup> - E (2023)
(continued)  Water  Water- River Water, Drinking Water, Ground Water (continued)	Tin	In-House Method LTM 1.13 based on MH15 Mercury Hydride System (Perkin Elmer) (2023)
Environmental Monitoring  Rubber and Palm Oil Effluents	BOD₃	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (ALT) 4th. Edition (2019) Department of Environment Malaysia
	COD	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) (ALT) 4th. Edition (2019) Department of Environment Malaysia
	Ammoniacal Nitrogen	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
	Total Kjeldahl Nitrogen	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
	Total Suspended Solids	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (ALT) 4th. Edition (2019) Department of Environment Malaysia
	Oil and Grease	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent (REF) 4th. Edition (2019) Department of Environment Malaysia
Industrial Hydgiene		,
Air sample (Analysis Only) Charcoal Tube	Methanol	NIOSH 2000, Issue 3, using Gas Chromatography FID
Charcoal Tube	Ethanol, 2-Propanol	NIOSH 1400, Issue 2, using Gas Chromatography FID
Charcoal Tube	n-Hexane	NIOSH 1500, Issue 3, using Gas Chromatography FID
Charcoal Tube	Acetone	NIOSH 1300, Issue 2, using Gas Chromatography FID
Charcoal Tube	Hydrocarbon Aromatic (BTEX) (Benzene,toluene, ethylbenzene,o-xylene, m-xylene, p-xylene)	NIOSH 1501, Issue 3, using Gas Chromatography FID

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SCOPE OF TESTING: CHEMICAL

SITE: CATEGORY I

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring Water- Waste Water,	рН	APHA 4500 - H+B (2023)
River, Drain, Sea, Ground and Boiler Water	Temperature	APHA 2550 (2023)
	Dissolved Oxygen	APHA 4500 – OG (2023)
	Dissolved Oxygen/Salinity/ Temperature	In-house method SM 4.4 based on YSI PRO 2030 User Manual
	Conductivity	APHA 2520 B
	Total Dissolved Solids	In house method SM 4.6 based on EUTECH Cyberscan Con 11 User Manual
Ambient Air Monitoring	Total Suspended Particulate	APHA 1C 11101-01-70T
	PM10	EPA Appendix J to Part 50
	Nitrogen Dioxide	APHA IC 42602 03-73T
	Sulfur Dioxide	APHA IC 42401 01-69T
Stack Monitoring	Isokinetic Stack Monitoring- Particulate Matter	MS 1596:2003

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SCOPE OF TESTING: CHEMICAL

SITE: CATEGORY I

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring		
Stack Monitoring	Measurement of CO <sub>2</sub> , CO, O <sub>2</sub> , NO, NO <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> S using Portable Gas Analyzer	In-house Method SM 2.5 based on Fuel Efficiency Monitor Model FEM-7 v.2.0 Technovation Analytical Instrumental.
	I) Dark Smoke	In-house Method SM 2.6 based on Ringelmann Smoke Chart (Revisior of IC 7718) US Bureau of Mines, May 1967
Ambient Air Monitoring	a) PM 2.5/ PM 10/ TSP	In-house Method SM 3.5 based on Airmetrics Minivol Portable Air Sampler Manual
	b) PM 2.5 & PM 10	In-house Method SM 3.8 based on Thermo Environmental Instrument Combined Sampler TEI-451 Manua
	c) Ozone	In-house Method SM 3.7 based on Series 500 User Guide. Aeroqual Manufacturer
	d) Carbon Monoxide	In-house Method SM 3.6 based on Carbon Monoxide Detector Tube Instruction Manual Kitagawa Manufacturer

#### Note:

DOE	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluents, 4th. Edition, (2019),
	Department of Environment Malaysia
REF	Reference Method of DOE revised standard procedure
ALT	Alternative Method of DOE revised standard procedure
APHA	American Public Health Association, 24 <sup>th.</sup> Edition, 2023
IMR	IMR ® Environmental Equipment
APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)
SM	Sampling Method (In-house)

#### Signatories

Azita Ayu Bt. Abdul Halim
 Nurul Syahnidz Adila Zaini

IKM No. M/2448/5081/2007 IKM No. M/5098/7213/15/19

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Stack Monitoring (Analysis Only) Solutions	a) Hydrogen Chloride	APHA IC 12203-01-68T
Solutions	b) Hydrogen Sulfide	USEPA Method 11
Solutions, Cellulose Thimble	c) Hydrogen Fluoride	USEPA Method 13A
Solid Sorbent Tube (Hopcalite)	d) Mercury	NIOSH 6009
Cellulose Thimble	e) Cadmium	In-house Method LTM 1.52 based on APHA IC 12110-02-73T APHA 3030 F (Sample Preparation)
Cellulose Thimble	f) Lead	In-house Method LTM 1.53 based on APHA IC 12128-02-73T APHA 3030 F (Sample Preparation)
Cellulose Thimble	g) Manganese	In-house Method LTM 1.54 based on APHA IC 12132-02-73T APHA 3030 F (Sample Preparation)
Cellulose Thimble	h) Arsenic	In-house Method LTM 1.55 based on NIOSH 7900
Cellulose Thimble	i) Copper	In-house Method LTM 1.56 based on APHA IC 12114-01-73T APHA 3030 F (Sample Preparation)
Cellulose Thimble	j) Nickel	In-house Method LTM 1.57 based on APHA IC 12136-01-73T APHA 3030 F (Sample Preparation)
Cellulose Thimble	k) Zinc	In-house Method LTM 1.58 based on APHA IC 12167-01-73T APHA 3030 F (Sample Preparation)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water	a) Aluminium	APHA 3500 AL B (Eriochrome Cyanine R)
	b) Chlorophyll-a	APHA 10150 B (Trichromatic Method)
Soil	рН	MS 678: Part 1:1980

#### Note:

DOE	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluents, 4th. Edition, (2019),
	Department of Environment Malaysia
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APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)
SM	Sampling Method (In-house)

#### Signatories:

Azita Ayu Bt. Abdul Halim
 Nurul Syahnidz Adila Zaini
 IKM No. M/2448/5081/2007
 IKM No. M/5098/7213/15/19

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SCOPE OF TESTING: CHEMICAL

SITE: CATEGORY I

	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
	Industrial Hygiene Indoor Air	a) Carbon Monoxide	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
of accreditation		b) Carbon Dioxide	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
e current scope o		c) Total Volatile Organic Compound (TVOC)	In-house Method SM 11.1 based on Quest EVM-7 User Guide (2011)
directories for th		d) Formaldehyde	In-house Method SM 11.2 based on PPM Formaldemeter HTV User Guide
Scan this QR Code or visit <u>www.jsm.gov.my/cab-directories</u> for the current scope of accreditation		e) Relative Humidity	In-house Method SM 11.4 based on Pro'Skit Temperature and Relative Humidity Meter User Guide
R Code or visit www		f) Temperature	In-house Method SM 11.4 based on Pro'Skit Temperature and Relative Humidity Meter User Guide
Scan this Of		g) Ozone	In-house Method SM 11.3 based on Aeoroqual Series 500 User Guide

#### Note:

DOE	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluents, 4th. Edition, (2019),
	Department of Environment Malaysia
REF	Reference Method of DOE revised standard procedure
ALT	Alternative Method of DOE revised standard procedure
APHA	American Public Health Association, 24th. Edition, 2023
IMR	IMR ® Environmental Equipment
APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)
SM	Sampling Method (In-house)

#### Signatories:

1. Anuar Bin Amir IKM No. M/3119/5840/11

2. Faridah Hanum Binti Mohd Amir

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SCOPE OF TESTING: MECHANICAL

SITE: CATEGORY I

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring  Noise Measurement	Sound Pressure Level	In-house Method SM 5.1 based on ISO 1996-1;2003-1 and ISO 1996-2; 2007
Vibration	Vibration	In-house Method SM 6.1 based on Vibrock V901 Instruction Manual

#### Note:

DOE	Standard Methods for Analysis of Rubber & Palm Oil Mill Effluents, 4th. Edition, (2019),
	Department of Environment Malaysia
REF	Reference Method of DOE revised standard procedure
ALT	Alternative Method of DOE revised standard procedure
APHA	American Public Health Association, 24 <sup>th.</sup> Edition, 2023
IMR	IMR ® Environmental Equipment
APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)
SM	Sampling Method (In-house)

#### Signatory:

1. Azita Ayu Bt. Abdul Halim

IKM No. M/2448/5081/2007

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#### SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Industrial Hygiene Indoor Air	a) Air Monitoring for Total Bacteria Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
	b) Air Monitoring for Total Fungus Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
Water  Drinking Water, Potable Water and Processed Water, Mineral Water, Ground Water and River Water	a) Total Coliform (Membrane filtration)	In-house Method LTM 9.1 based on APHA 9222 B (2023)
	b) E. coli (Membrane filtration)	In-house Method LTM 9.2 based on APHA 9222 B (2023)
	c) Faecal coliform (Membrane filtration)	APHA 9222 D (2023)
	d) Faecal streptococcus (Membrane filtration)	APHA 9230 C (2023)
	e) Enterococci (Membrane filtration)	APHA 9230 C (2023)
	f) Pseudomonas aeruginosa (Membrane filtration)	APHA 9213 E (2023)

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#### SCOPE OF TESTING: MICROBIOLOGY

#### Note:

REF	Reference Method of DOE revised standard procedure
ALT	Alternative Method of DOE revised standard procedure
APHA	American Public Health Association, 24th. Edition, 2023
IMR	IMR ® Environmental Equipment
APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)

#### Signatory:

#### 1. Nadira Binti Azuar

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#### SCOPE OF TESTING: MECHANICAL

SITE: CATEGORY I

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Industrial Hygiene Indoor Air	a) Air monitoring for Total Bacteria Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)
	a) Air monitoring for Total Fungus Count	NIOSH Manual of Analytical Method 0800: Bioaerosol Sampling (Indoor Air) (Issue 1:15 January 2023)

#### Note:

REF	Reference Method of DOE revised standard procedure
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APHA	American Public Health Association, 24th. Edition, 2023
IMR	IMR ® Environmental Equipment
APHA IC	APHA Inter-science Committee
ISO	International Organisation for Standardisation
NIOSH	National Institue of Occupational Safety and Health
LTM	Laboratory Test Method (In-house)

#### Signatory:

1. Nadira Binti Azuar

## ENVIRONMENTAL MONITORING







## **Boundary Noise Monitoring**

**Industrial Effluent Characteristic Study** 

Stack/Chimney/Air Emission Monitoring

**Ambient Air Quality Monitoring** 

**Vibration Monitoring** 

Industrial Effluent/sewage

## WATER QUALITY MONITORING







**River Water Quality Monitoring** 

**Marine Water Quality Monitoring** 

Total Maximum Daily Load Study (TMDL)

**Groundwater Monitoring** 

## INDUSTRIAL HYGIENE MONITORING







Indoor Air Quality (IAQ)

Chemical Exposure Monitoring (CEM)

Noise Risk Assessment (NRA)

Chemical Health Risk
Assessment (CHRA)

Local Exhaust Ventilation (LEV)

## LABORATORY ANALYTICAL SERVICES







Water Analysis (Drinking water, Ground water, Sewage, Fresh water, Marine water, Swimming pool)

**Industrial Effluent & Influent** 

**Soil Analysis** 

**Sludge Analysis** 

**Air Analysis** 

## MICROBIOLOGICAL ANALYSIS







E. Coli

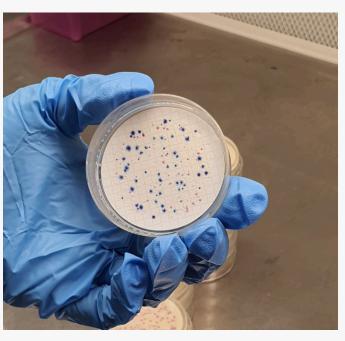
**Total Coliform** 

**Faecal Coliform** 

**Total Bacteria Count** 

**Total Fungus Count** 

## MICROBIOLOGICAL ANALYSIS







**Fungus ID** 

**RODAC** 

Heterotrophic Plate Count

/ Total Plate Count

**Staphylococcus Aureus** 

Pseudomonas Aeruginosa

## **ECOLOGICAL ASSESSMENT**







Macrobenthos

**Phytoplankton** 

Zooplanktons

**Chlorophyll A** 

**Algae Identification** 

Fish ID

## **COMPANY AND BUSINESS REGISTRATION**

**Registered Name** 

**Registered Address** 

**Website URL** 

**Email Address** 

**Date of Incorporation** 

**MOH Registered Number** 

**SST Registered Number** 

Co. Registration No.

**A&A SCIENTIFIC RESOURCES SDN BHD** 

**UITM - A&A LABORATORY** 

Bangunan Makmal Penyelidikan Alam Sekitar, Kolej Kediaman Kenanga 2, Universiti Teknologi MARA, 40450 Shah Alam, Selangor Darul Ehsan

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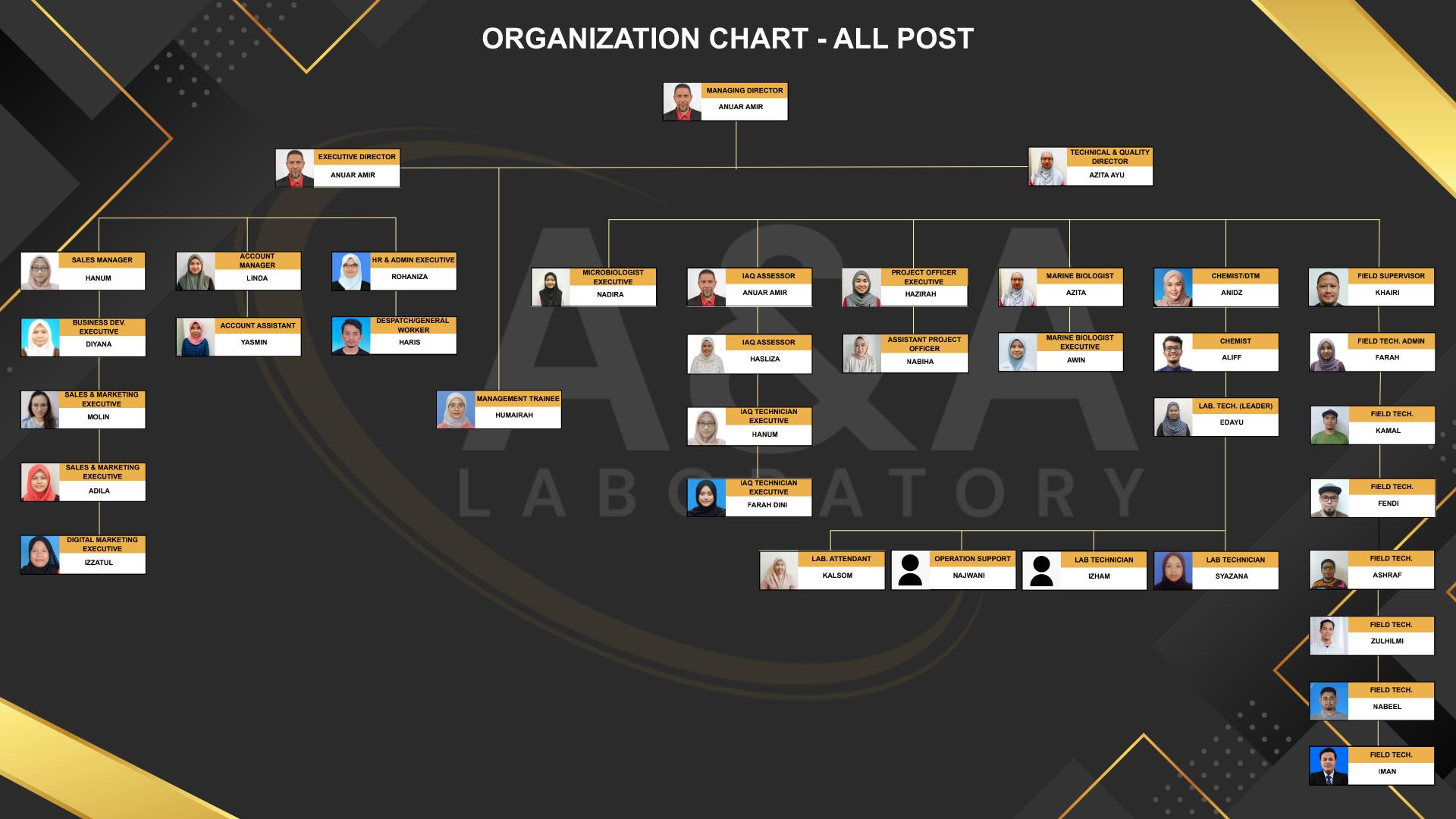
info@environment.com.my

12th September 2003 (CETEC Laboratory commenced its operation in September 1992)

357-02026928

B16-1904-380000015

200301025502 (627922-U)











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