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LABORATORY LOCATION:
(PERMANENT LABORATORY)

ERALAB SDN. BHD.
NO. 21, BLOCK C, TAIPAN 2 DAMANSARA
JALAN PJU 1A/3, ARA DAMANSARA
47301 PETALING JAYA,
SELANGOR
MALAYSIA

FIELDS OF TESTING:

CHEMICAL AND MICROBIOLOGY

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 Sewage Water, Industrial Wastewater, Effluent & Others (Sea Water)	Temperature pH Dissolved Oxygen Conductivity Salinity Residual Chlorine Total Solids Total Dissolved Solids Total Suspended Solids Turbidity Alkalinity	APHA 2550B APHA 4500H ⁺ -B APHA 4500O-G APHA 2510B In-house method Ref ERA/TMPM-I (W009) based on Manufacturer's Method (YSI) In-house method Ref ERA/TMPM-I (W004) based on Manufacturer's Method (Lovibond/ Palintest) APHA 2540B APHA 2540C APHA 2540D APHA 2130B APHA 2320B

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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 (continued)		
Sewage Water, Industrial Wastewater, Effluent & Others (Sea Water)	Acidity	APHA 2310B
	Color	APHA 2120B
	Hardness	APHA 2340C
	Biochemical Oxygen Demand	APHA 5210B
	Chemical Oxygen Demand	APHA 5220C
	Oil and Grease	APHA 5520 B
	Total Kjeldahl Nitrogen	APHA 4500N _{org} -B, APHA 4500 - NH ₃ C
	Ammoniacal Nitrogen	APHA 4500-NH ₃ C
	Organic Nitrogen	APHA 4500N _{org} -B
	Phenols	HACH METHOD 8047
	Surfactant, Anionic	HACH METHOD 8028
	Silica	HACH METHOD 8185
	Boron	HACH METHOD 8015
	Chloride	HACH METHOD 8113
	Cyanide	HACH METHOD 8027
	Fluoride	HACH METHOD 8029
	Nitrate	HACH METHOD 8171
	Nitrite	HACH METHOD 8507
	Sulfate	HACH METHOD 8051
	Sulfide	HACH METHOD 8131
	Orthophosphate	HACH METHOD 8048

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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 (continued) Sewage Water, Industrial Wastewater, Effluent & Others (Sea Water)	Total Phosphorus	HACH METHOD 8190
	Chromium Hexavalent (Cr VI)	HACH METHOD 8023
	Chromium Trivalent (Cr III)	In-house method Ref ERA/TMPM-I(W046)
	Color	APHA 2120F
	Formaldehyde	HACH MTD 8110
	Calcium (Ca) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Silver (Ag) Zinc (Zn)	APHA 3111B
	Cadmium (Cd) Lead (Pb) Aluminium (Al) Tin (Sn)	APHA 3113B
	Arsenic (As) Selenium (Se)	APHA 3114C
	Mercury (Hg)	APHA 3112B
	Sample Preparation for Metals Analysis	APHA 3030B, APHA 3030E, F, G, H & I

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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 Ambient Air	Total Suspended Particulates (TSP)	APHA IC (11101-01-70T)(74R)
	PM10	APHA IC (11101-01-70T)(74R)
	Nitrogen Dioxide (NO ₂)	APHA IC (42602-01-68T)(74R)
	Sulfur Dioxide (SO ₂)	APHA IC (424401-01-69T)
	Carbon Monoxide (CO)	APHA IC (42101-07-74T)
	Dust: Particulate Matter as PM2.5 Particulate Matter as PM10 Total Suspended Particulate (TSP)	In-house method TPM 1-A006 & TPM II-A005 based on 40 CFR part 50, Appendix J & L
	Gases: Ozone	In-house method TPM II-A006 based on Manufacturer's Method

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Industrial Effluent, Leachate & Sewage Water	<u>Metals:</u> Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Boron (B) Calcium (Ca) Cadmium (Cd) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Silica (Si) Silver (Ag) Selenium (Se) Sodium (Na) Strontium (Sr) Thallium (Tl) Vanadium (V) Zinc (Zn) Chromium (Cr)	APHA 3120B
	Organics: Phenols Total Hydrocarbon	APHA 5530 B & C APHA 5520 F
	Inorganics: Sulfide	APHA 4500 S2- D
	Metals: Tin (Sn) Potassium (K) Phosphorus (P) Chromium Hexavalent (Cr VI)	APHA 3120 B APHA 3120 B APHA 3120 B APHA 3500 Cr B
	Solids: Fixed and Volatile Solids Ignited at 550°C	APHA 2540 E

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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 (continued) Industrial Effluent, Leachate & Sewage Water	<u>Inorganics:</u> Fluoride (F^-) Bromide (Br^-) Chloride (Cl^-) Nitrate (NO_3^-) Nitrite (NO_2^-) Phosphate (PO_4^{2-}) Sulphate (SO_4^{2-})	APHA 4110B
	<u>Organics:</u> Total Organic Carbon Total Petroleum Hydrocarbon	APHA 5310B USEPA 8015C
Liquid Sample (Stack Emission)	<u>Inorganic Acids:</u> Hydrogen Chloride (HCl) Hydrogen Fluoride (HF) Hydrogen Bromide (HBr)	In-house method TPM I- E001 (inorganics) based on USEPA 26A (analysis only)

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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		
Surface Water, Groundwater, Mineral Water, Processed Water, Recycled Water, Potable & Domestic Water	Temperature	APHA 2550B
	pH	APHA 4500H ⁺ -B
	Dissolved Oxygen	APHA 4500O-G
	Conductivity	APHA 2510B
	Salinity	In-house method Ref ERA/TMPM-I (W009) based on Manufacturer's Method (YSI)
	Turbidity	APHA 2130B
	Residual Chlorine	In-house method Ref ERA/TMPM-I (W004) based on Manufacturer's Method (Lovibond/ Palintest)
	Total Solids	APHA 2540B
	Total Dissolved Solids	APHA 2540C
	Total Suspended Solids	APHA 2540D
	Turbidity	APHA 2130B
	Alkalinity	APHA 2320B
	Acidity	APHA 2310B
	Color	APHA 2120B
	Hardness	APHA 2340C
	Biochemical Oxygen Demand	APHA 5210B
	Chemical Oxygen Demand	APHA 5220C
	Oil and Grease	APHA 5520 B
	Total Kjeldahl Nitrogen	APHA 4500N _{org} -B, APHA 4500 - NH ₃ C
	Ammoniacal Nitrogen	APHA 4500-NH ₃ C
	Organic Nitrogen	APHA 4500N _{org} -B
	Phenols	HACH METHOD 8047

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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 Surface Water, Groundwater, Mineral Water, Processed Water, Recycled Water, Potable & Domestic Water	Surfactant, Anionic	HACH METHOD 8028
	Silica	HACH METHOD 8185
	Boron	HACH METHOD 8015
	Chloride	HACH METHOD 8113
	Cyanide	HACH METHOD 8027
	Fluoride	HACH METHOD 8029
	Nitrate	HACH METHOD 8171
	Nitrite	HACH METHOD 8507
	Sulfate	HACH METHOD 8051
	Sulfide	HACH METHOD 8131
	Orthophosphate	HACH METHOD 8048
	Total Phosphorus	HACH METHOD 8190
	Chromium Hexavalent (Cr VI)	HACH METHOD 8023
	Chromium Trivalent (Cr III)	In-house method Ref ERA/TMPM-I(W024a) based on APHA 3111B
	Calcium (Ca) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Silver (Ag) Zinc (Zn)	APHA 3111B
	Cadmium (Cd) Lead (Pb) Aluminium (Al) Tin (Sn)	APHA 3113B

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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 (continued) Surface Water, Groundwater, Mineral Water, Processed Water, Recycled Water, Potable & Domestic Water	Arsenic (As) Selenium (Se)	APHA 3114C
	Mercury (Hg)	APHA 3112B
	Sample Preparation for Metals Analysis	APHA 3030B, APHA 3030E, F, G, H & I
	Organics: Organochlorine Pesticides & Herbicides (List of compounds as in <i>Appendix 1</i>) Volatile Organic Compounds (VOCs) (Benzene, Ethylbenzene, Xylene) Phenols Total Hydrocarbon	USEPA 8081 B GC-ECD USEPA 3510 C Liquid-liquid Extraction In-House Method ERATTMPM 1- W055 Purge & Trap- GCMS-MS based on USEPA 5030C & USEPA 8260 D APHA 5530 B & C APHA 5520 B & F
	Metals: Tin (Sn) Potassium (K) Phosphorus (P) Chromium Hexavalent (Cr VI)	APHA 3120 B APHA 3120 B APHA 3120 B APHA 3500 Cr B
	Inorganics: Sulfide Surfactant	APHA 4500 S2- D APHA 5540 C

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Distilled demineralized, Groundwater, Industrial / Cooling Purposes, Mineral Water, Potable and Domestic, Processes Water, Recycled Water, Reverse Osmosis Water, Saline Water, Steam Raising / Boiler, Surface Water, Swimming Pool Water & Marine Water	<u>Metals:</u> Aluminium (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Boron (B) Calcium (Ca) Cadmium (Cd) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Silica (Si) Silver (Ag) Selenium (Se) Sodium (Na) Strontium (Sr) Thallium (Tl) Vanadium (V) Zinc (Zn) Chromium (Cr)	APHA 3120B
	<u>Inorganics:</u> Fluoride (F ⁻) Bromide (Br ⁻) Chloride (Cl ⁻) Nitrate (NO ₃ ⁻) Nitrite (NO ₂ ⁻) Phosphate (PO ₄ ²⁻) Sulphate (SO ₄ ²⁻)	APHA 4110B

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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 (continued) Distilled Water, Groundwater, Mineral Water, Potable and Domestic, Processed Water, Surface Water & Marine Water	<u>Organics:</u> Total Organic Carbon Total Petroleum Hydrocarbon	APHA 5310B USEPA 8015C
Distilled Water, Groundwater, Mineral Water, Potable and Domestic & Processed Water	Trihalomethanes - Bromoform - Chloroform - Dibromochloromethane - Dichlorobromomethane	USEPA 8260C
Workplace Environmental & Hazards Industrial Hygiene	<u>Metal:</u> Aluminium (Al) Antimony (Sb) Arsenic (As) Beryllium (Be) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Magnesium (Mg) Molybdenum (Mo) Nickel (Ni) Vanadium (V) Zinc (Zn)	NMAM 7303
	Lead (Pb)	NMAM 7300 NMAM 7303 NMAM 7082
	Mercury (Hg)	NMAM 6009
	Crystalline Silica	NMAM 7602 } In-operative

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Workplace Environmental & Hazards (continued) Industrial Hygiene	<u>Inorganic Acids:</u> Hydrofluoric Acid (HF) Hydrochloric Acid (HCl) Phosphoric Acid (H ₃ PO ₄) Hydrobromic Acid (HBr) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄)	In-house method TPM I-IH005 based on NMAM 7903
	<u>Organics:</u> Benzene Toluene Ethylbenzene Xylene	NMAM 1501
	Ethylene Dichloride (EDC) Vinyl Chloride (VCM) Oil Mist Total Dust Respirable Dust	NMAM 1003 In-house IH (009) NMAM 5026 NMAM 0500 NMAM 0600 In-operative
Soil, Sludge, Sediment	Solid: Total, Fixed and Volatile Solids	APHA 2540 G
	Organics: Total Organic Carbon (TOC) n-Hexane Extractable Material (HEM) Total Hydrocarbon	In-House Method ERA/TMPM I-5007 based on Shimadzu SSM-5000 A In-House Method ERA/TMPM I-5007 based on Shimadzu SSM-5000 A APHA 5520 E & F

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Petroleum Product, Lubricant, Additives	Water Content in Liquid Water Content in Gas Density, Relative Density (Specific Gravity), API Gravity Kinematic Viscosity Dinamic Viscosity Yield Stress	ASTM D6304-20 ISO 10101-3 ASTM D7777-13(2018)e1 In-House Method TMPM WI _1015 based on ISO 3219 In-House Method TMPM WI _1015 based on ISO 3219 In-House Method TMPM WI _1015 based on ISO 3219
Gases	Nitrogen Carbon Dioxide Methane Ethane Propane Isobutane N-butane Isopentane N-pentane N-Hexane	GPA 2286

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Note:

APHA	:	Standard Methods for the Examination of Water and Wastewater
HACH	:	HACH Spectrophotometer Procedures Manual
APHA IC	:	Method of Air Sampling and Analysis, APHA Intersociety Committee
NMAM	:	NIOSH Manual of Analytical Methods
USEPA	:	United States Environmental Protection Agency
GPA	:	Gas Processors Association
ASTM	:	American Society of Testing and Material
ISO	:	International Organization of Standardization

Signatories:

1.	Noor Azimah Mustafa	IKM No.: M/1386/2536/1995
2.	Wan Ezak Shah bin Wan Abdullah	IKM No.: M/2338/4895/06
3.	Nurul Shuhada Zakaria	IKM No.: M/5126/8417/19
4.	Nur Azhani Binti Jamaluddin	IKM No.: M/5440/8868/20

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SCOPE OF TESTING: CHEMICAL**APPENDIX 4****APPENDIX A
SCOPE OF ACCREDITATION SOUGHT
(TESTING LABORATORY)**Organochlorine Pesticides & Herbicides

- | | |
|----------------------------------|--------------------------|
| 1. alfa-BHC | 12. Dieldrin |
| 2. gamma-BHC (Lindane) | 13. Endrin |
| 3. beta-BHC | 14. 4,4'-DDD |
| 4. delta-BHC | 15. Endosulfan II (beta) |
| 5. Heptachlor | 16. Endrin Aldehyde |
| 6. Aldrin | 17. 4,4'-DDT |
| 7. Heptachlor epoxide (Isomer B) | 18. Endosulfan Sulfate |
| 8. gamma-chlordane | 19. Methoxychlor |
| 9. alpha-chlordane | 20. Endrin Ketone |
| 10. Endosulfan 1(alpha) | |
| 11. 4,4'-DDE | |

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water Dist Distilled Water, Mineral Water, Potable and Domestic, Processed Water, Surface Water & Groundwater	Total Coliform Fecal Coliform <i>E. Coli</i> Heterothropic Plate Count	APHA 9222 B APHA 9222 D USEPA 1603 APHA 9215 B
Distilled Water, Mineral Water, Potable and Domestic, Marine Water, Surface Water & Ground Water	Total Coliform Fecal Coliform <i>E. coli</i>	APHA 9221 B (MPN Method) APHA 9221 E (MPN Method) APHA 9221 F (MPN Method)
Distilled Water, Mineral Water, Potable and Domestic	Fecal Streptococci/ Enterococci <i>Pseudomonas aeruginosa</i> <i>Clostridium perfringens</i>	APHA 9230 C APHA 9213 E HPA 2004, NSM W5 (03)
Workplace Environmental & Hazards Indoor Air	Total Fungi Total Bacteria	NMAM 0800

Note:

APHA : Standard Methods for the Examination of Water and Wastewater
 USEPA : United States Environmental Protection Agency
 HPA 2004, NSM : Health Protection Agency (2004), National Standard Method
 NMAM : NIOSH Manual of Analytical Methods

Signatories:

1. Noraini bt. Shair
2. Nadirah binti Noor Sham **MJMM 0422**

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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
Noise	Test parameter: LAeq Lmax Lmin L10 L50 L90 Measuring range: 0-114 dBA	In-house method ERA/TMPM II- N001 based on Sound Level Meter LXT1 & G4 and ISO 1996-1
Vibration	Test parameter: Peak Particle Velocity, ppv (mm/s) Frequency, Hertz (Hz)	In-house method ERA/TMPM II- V001 based on Micromate manufacturer's method;- i) ISO 2631-1 ii) DIN 4150-Part 3

Note:

ISO : International Organization for Standardization

DIN : Deutsches Institut fur Normung (German Standards)

Signatories:

- Noor Azimah Mustafa** IKM No.: M/1386/2536/1995
- Wan Ezak Shah bin Wan Abdullah** IKM No.: M/2338/4895/06

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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
Water Surface Water, Ground Water, Mineral Water, Processed Water, Recycled Water, Potable and Domestic Water	Temperature pH Dissolved Oxygen Conductivity Salinity Turbidity Residual Chlorine Color	APHA 2550B APHA 4500H ⁺ -B APHA 4500O-G APHA 2510B In-house method Ref ERA/TMPM-I (W009) based on Manufacturer's Method (YSI) APHA 2130B In-house method Ref ERA/TMPM-I (W004) based on Manufacturer's Method (Lovibond/ Palintest) APHA 2120B
Environmental Monitoring Ambient Air	Nitrogen Dioxide (NO ₂) Sulfur Dioxide (SO ₂) Carbon Monoxide (CO)	APHA IC (42602-01-68T)(74R) APHA IC (42401-01-69T) APHA IC (42101-07-74T)
Environmental Monitoring Sewage Water, Industrial Wastewater, Others (Sea Water)	Temperature pH Dissolved Oxygen Conductivity Salinity Turbidity Residual Chlorine	APHA 2550B APHA 4500H ⁺ -B APHA 4500O-G APHA 2510B In-house method Ref ERA/TMPM-I (W009) based on Manufacturer's Method (YSI) APHA 2130B In-house method Ref ERA/TMPM-I (W004) based on Manufacturer's Method (Lovibond/ Palintest)

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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 Stationary Source Emission	Gases: Oxygen (O ₂) Carbon Monoxide (CO) Carbon Dioxide (CO ₂) Nitric Oxide (NO) Nitrogen Dioxide (NO ₂) Sulfur Dioxide (H ₂ S) Hydrogen Sulfide (H ₂ S) Particulate Matter Dark Smoke	Inhouse Mtd. E-G-001(Flue Gases) Based on Analyzer Kane 975 MS 1596 : 2003 USEPA 5 BS 2742: 2009 (Ringelmann Smoke Chart)

Note:

APHA : Standard Methods for the Examination of Water and Wastewater
 APHA IC : Method of Air Sampling and Analysis, APHA Intersociety Committee
 MS : Malaysian Standard
 BS : British Standard

Signatories:

- | | |
|-----------------------------------|----------------------------------|
| 1. Noor Azimah Mustafa | IKM No.: M/1386/2536/1995 |
| 2. Wan Ezak Shah bin Wan Abdullah | IKM No.: M/2338/4895/06 |
| 3. Nurul Shuhada Zakaria | IKM No.: M/5126/8417/19 |
- Environmental Monitoring (Industrial wastewater, leachate, sewage water & other) & Water only**