

From  
Managing Director



We are pleased to enclose herewith our company profile for your attention!

**Chemvi Laboratory Sdn. Bhd.** was formed in early 2000 by a group of professionals. They have several years of experience in environmental management, pollution control and monitoring, environmental impact assessment, environmental education and training. The company has associated themselves with other local and international companies that have vast experience in related fields.

We take pride in our position as an effective provider of efficient and quality services. We are continuously striving to enhance this through quality improvement initiatives.

We welcome an opportunity to extend our services to your organization and to build a mutually beneficial business relationship. Please do not hesitate to contact the undersigned to further discuss your environmental needs.

Remember !..... Your environment is as much a concern to you as it is to us at Chemvi Laboratory.

Thank You

Sincerely Yours,  
**Chemvi Laboratory Sdn. Bhd.**

**Dr. Shanmugam**

*B.Sc. (Hons)(UM)., M.Sc. (Chem)(UM).,  
DBA (Env. Mngt)(MMU).,  
AMIC., MRSC (UK)*

*Managing Director*

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## Commitment

### QUALITY POLICY

Strives to seek excellence in customer services by providing the following to our esteemed customer:

- Guaranteed Quality Services
  - Competitive Cost
  - On Time Delivery

### QUALITY OBJECTIVES

- To achieve an average of equal to or less than one customer complaint per year
  - To be a leader in the field of Laboratory Services
- To maintain the ISO/IEC-17025 Accreditation throughout



## ENVIRONMENTAL POLICY

We at Chemvi Laboratory Sdn.Bhd. are proud to be one of the leading Laboratory's in Malaysia, firmly believe in the preservation of the environment and safeguarding the management, staff and the public. Towards this end, we are committed to practice **CHEMVI** by;

- C** Compliance to relevant environmental legal and other requirements;
- H** Having training for all employees and continually improving our Environmental Management Systems;
- E** Enhancing the image of the company as an environmental friendly organization;
- M** Minimizing waste through better management of resources;
- V** Viewing and looking after our environment through the prevention of pollution;
- I** Instituting a sustainable policy for ensuring and enhancing a better quality of life for employees, public and future generations.

This policy will be periodically reviewed, ***communicated to all persons working for or on behalf of Chemvi and made available to public.***

*r.Shanmugam*

Managing Director

Date: **02<sup>nd</sup> January 2019**





## Services

We from **Chemvi**, take great pleasure in introducing our services to your esteemed organization. **Chemvi** is involved in various aspects of independent analytical services tailored to meet your demands either routine analysis or prompt attendance to your analytical needs.

**Chemvi** is fully committed to provide high quality and efficient services and equipped with the latest laboratory instruments, sampling equipments and professionals to cater for the ever-demanding needs for analytical precision, sampling, monitoring and assessments

- ❖ Chemical Testing, Scheduled Waste Characteristic and Composition Analysis
  - As per First Schedule, Environmental Quality (Scheduled Wastes) 2005 Regulations. Department of Environment (DOE) for Scheduled Waste (TCLP, TTLC and STLC and Waste Acceptance Criteria (WAC)
  - Water Quality Analysis/Marine Water
  - Effluent, Wastewater, River Water, Seawater, Groundwater and Potable Water Quality Analysis
- ❖ Environmental Monitoring and Related Analysis
- ❖ Occupational Safety and Health Related Services
- ❖ Asbestos and Inventory of Hazardous Material (IHM)
  - Inventory of Hazardous Material (IHM) testing in compliance to the Resolution MEPC.269(68), 2015 Guidelines for the Development of the Inventory of Hazardous Material (IHM), Appendix 9.
- ❖ Biomonitoring, Microbiological and Food Related Analysis
  - Heavy Metal in Blood and Urine
  - Microbiological analysis, Food Analysis and Nutrition Labelling
- ❖ Medical surveillance, Health surveillance, Biological Monitoring and Audiometric test by Occupational Health Doctor (OHD)
  - Medical surveillance, as defined by the Department of Occupational Safety and Health (DOSH) Malaysia, is a process to monitor a person's health for changes due to workplace exposure to hazardous chemicals
  - As per Guidelines on Medical Surveillance Programme at The Workplace 2023
- ❖ Education, Training and Product
- ❖ Agriculture based analysis





## Put Our People to the test.



We realize our people are key members of your organisation team. In order to provide accurate and timely test results we carefully scrutinize all procedures and scheduling, evaluate new technologies and stay abreast of the many changes and advance being made in the field of medical technology. This process has become a way with us and will be an ongoing commitment to our clients.





### How can ChemVi Laboratory help your business?

We can offer testing and support services covering all aspects of the environmental profiles of chemical products and manufacturing operations.

We operate in compliance to relevant environmental legal and other requirements to ensure the highest quality of our services. Our clients also appreciate that all enquiries, project discussions and results will be treated with the strictest confidence.

### Higher Tier Studies

- Our expertise in conducting long term studies is extensive and backed by new state-of-the-art facilities.
- If you require studies to meet your individual requirements, eg extended life cycle studies with additional biomarkers, our dedicated team of experts can advise and tailor our procedures to meet your needs. We will perform Data Searches using Read-Across *in vitro* data.
- Collaborative programs on environmental consultancy to acquire the skills and expertise to support your business needs.
- We can perform the tests required for the generation of data for factory / project development.







**ACCREDITATION**



## CERTIFICATE OF ACCREDITATION

S/N: 1599



**STANDARDS  
MALAYSIA**

*Certificate of Accreditation*

No: SAMM 213 Accredited since: 27 July 2001

This is to certify that

CHEMVI LABORATORY SDN. BHD.  
SHAH ALAM, SELANGOR  
MALAYSIA



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for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM); the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).



(SHAHARUL SADRI BIN ALWI)  
Director General  
Department of Standards Malaysia

Date of issue: 29 May 2020

Issuance of this Certificate is governed by Section 16 Subsections (2) and (3) of Standards of Malaysia Act 1996 (Act 549)

# SCOPE OF ACCREDITATION

## Schedule

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LABORATORY LOCATION:  
(PERMANENT LABORATORY)



CHEMVI LABORATORY SDN. BHD.  
NO 22A, JALAN SUNGAI JELUH 32/192,  
NOUVELLE KEMUNING INDUSTRIAL PARK  
BUKIT RIMAU, SEKSYEN 32,  
40460 SHAH ALAM  
SELANGOR, MALAYSIA

FIELDS OF TESTING:

CHEMICAL AND 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
Potable and Domestic / Industrial Water, Effluent Surface Water Ground Water Natural Water Mineral Water Drinking Water Portable Water River Water Raw Water	pH Total Suspended Solids BOD <sub>5</sub> at 20°C COD Cadmium as Cd Chromium as Cr Lead as Pb Copper as Cu Manganese as Mn Nickel as Ni Zinc as Zn Iron as Fe Free-Cl <sub>2</sub> Oil & Grease Dissolved Oxygen Preliminary Treatment of Samples for Metal Analysis Sulphide Boron Phenol Chromium, Trivalent	APHA 4500 H <sup>+</sup> B Electrometric Method APHA 2540 D dried at (103 - 105 °C) APHA 5210 B & 4500-O G APHA 5220 C APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 4500 Cl-F APHA 5520 B APHA 4500 O-G APHA 3030 E  APHA 4500 S <sup>2</sup> -F APHA 4500 B : C APHA 5530 B&D In House Method, SM059 Based on Spectroquant 14552 (by calculation)

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Potable and Domestic / Industrial Water, Effluent Surface Water Ground Water Natural Water Mineral Water Drinking Water Portable Water River Water Raw Water	Fluoride Formaldehyde Color ADMI Ammonia Nitrogen Chloride Total Dissolved Solid Total Solid Hydrocarbon (Water) Nitrate (NO <sub>3</sub> ) Phosphate (PO <sub>4</sub> ) Hardness Silica as SiO <sub>2</sub> Nitrite (NO <sub>2</sub> ) Sulfate (SO <sub>4</sub> ) Phosphorus Nitrogen Surfactants Anionic Detergents Carbon Dioxide O & G (Mineral Oil) O & G (Emulsified) Polychlorinated Biphenyls (PCBs) (Appendix 1) Organochlorine Pesticides (Appendix 2) Alkalinity Cyanide as CN	APHA 4500F D HACH Method 8110 APHA 2120 F APHA 4500 NH <sub>3</sub> B & F APHA 4500 Cl- B APHA 2540 C APHA 2540 B APHA 5520 B & F HACH METHOD 8039 HACH METHOD 8048 APHA 2340 B (By Calculation) HACH METHOD 8185 HACH METHOD 8507 HACH METHOD 8051 APHA 4500-P B(5)&C APHA 4500-N (org) (B) HACH Method 8028 HACH Method 8223 APHA 5520 B & F APHA 5520 B USEPA Method 525.2 USEPA Method 525.2 HACH Method 8221 HACH Method 8027

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Surface Water Ground Water Natural Water Mineral Water Drinking Water River Water Raw Water	Chlorinated Acid (Herbicides) 2,4-D (2,4-Dichlorophenoxyacetic acid)  2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)  2,4,5-TP (2,4,5-Trichlorophenoxypropionic acid)  Paraquat Diquat	USEPA 555          USEPA 549.2 USEPA 549.2
Potable and Domestic/Industrial Water, Effluent, Surface Water, Ground Water, Natural Water, Mineral Water, Drinking Water, Portable Water, River Water, Raw Water	Tin as Sn  Arsenic as As  Mercury as Hg	In-house Method SM065 based on APHA 3120B  APHA 3120B  In-house Method SM066 based on APHA 3120B

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Potable and Domestic / Industrial Water, Effluent Surface Water Ground Water Natural Water Mineral Water Drinking Water Portable Water River Water Raw Water	Chromium Hexavalent as Cr <sup>6+</sup>	APHA 3500 Cr B Colorimetric Method
	Cyanide as CN	OSRMA p.456 Photoelectric Method
	Arsenic as As	APHA 3114 C Continuous Hydride Generation/Atomic Absorption Spectrometric Method
	Tin as Sn	In-House Method: CV/002, (Based on APHA 3114 C Continuous Hydride Generation/Atomic Absorption Spectrometric Method)
	Mercury as Hg	APHA 3112 B Cold-Vapor Atomic Absorption
	Ammonical-Nitrogen (NH <sub>3</sub> – N)	APHA 4500 NH <sub>3</sub> B&C
	Preliminary Treatment of Sample	APHA 3030 F
	Aluminum as Al	APHA 3120 B (ICP – OES)
	Boron as B	
	Barium as Ba	
	Cadmium as Ca	
	Chromium as Cr	
	Cobalt as Co	
	Copper as Cu	
	Iron as Fe	
	Lead as Pb	
	Magnesium as Mg	
	Manganese as Mn	
	Nickel as Ni	
	Silver as Ag	
	Strontium as Sr	
	Thallium as Tl	
	Zinc as Zn	

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Potable and Domestic / Industrial Water, Effluent Surface Water Ground Water Natural Water Mineral Water Drinking Water Portable Water River Water Raw Water	Preliminary Treatment of Sample <b>Low Level Metals</b> Silver as Ag Aluminum as Al Arsenic as As Barium as Ba Beryllium as Be Copper as Cu Cobalt as Co Chromium as Cr Cesium as Cs Iron as Fe Gallium as Ga Mercury as Hg Lithium as Li Manganese as Mn Nickel as Ni Lead as Pb Rubidium as Rb Selenium as Se Strontium as Sr Titanium as Ti Uranium as U Zinc as Zn	<p>APHA 3030 F</p> <p>In-house Method SM065 based on APHA 3125B with High Matrix Introduction (HMI) and Octopole Ion guide, ICPMS</p>
Marine Water Drinking Water Ground Water	<p>Preliminary Treatment of sample</p> <p>Calcium as Ca Potassium as K Magnesium as Mg Sodium as Na Silica as Si</p>	<p>APHA 3030 F</p> <p>In-house method SM065 based on APHA 3125B with High Matrix Introduction (HMI) and octopole ion guide, ICPMS</p>



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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Marine Water Estuarine Water Coastal Water	TSS	APHA 2540 D
	Colour	APHA 2120 F
	Oil and Grease	APHA 5520 B
	Ammoniacal Nitrogen	APHA 4500- NH <sub>3</sub> B & F
	Nitrite (NO <sub>2</sub> )	HACH 8507
	Nitrate (NO <sub>3</sub> )	HACH 8192
	Phenol	APHA 5530 B & D
	Arsenic	APHA 3120 B
	Cadmium	APHA 3120 B
	Chromium	APHA 3120 B
	Chromium(Cr 6+)	APHA 3500 Cr B
	Copper	APHA 3120 B
	Lead	APHA 3120 B
	Nickel	APHA 3120 B
	Mercury	In House Method SM064 (modify based on APHA 3120 B
	Zinc	APHA 3120 B
	Phosphate	HACH METHOD 8048
	Total Organic Carbon (TOC)	APHA 5310 B
	Cyanide	OSRMA P.456
	Tributyltin (TBT)	APHA 6710 B
	Polycyclic Aromatic Hydrocarbon (PAHs) (Appendix 3)	APHA 6410 B
	Organic Nitrogen	APHA 4500 N (ORG)
	Cyanide as CN	HACH Method 8027

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## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Marine Water Estuarine Water Coastal Water	Unionized Ammonia (NH <sub>3</sub> )	In-house Method SMO63 based on Florida Department of Environment Protection Chemistry Laboratory Methods Manual Tallahassee Calculation Method
	Preliminary Treatment of Sample	APHA 3030 F
	<b>Low Level Metals</b>	In-house Method SM065 based on APHA 3125B with High Matrix Introduction (HMI) and Octopole ion guide, ICPMS
	Silver as Ag Aluminum as Al Arsenic as As Barium as Ba Beryllium as Be Cadmium as Cd Copper as Cu Cobalt as Co Chromium as Cr Cesium as Cs Iron as Fe Gallium as Ga Mercury as Hg Lithium as Li Manganese as Mn Nickel as Ni Lead as Pb Rubidium as Rb Selenium as Se Strontium as Sr Titanium as Ti Uranium as U Zinc as Zn	

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## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Sediment, Sludge, Soil, Solid Samples	Preliminary Treatment of Samples: Acid Digestion	USEPA 3050 B (1996)
	Metal By Acid Digestion:	
	Aluminum as Al	} USEPA 3050 B (1996) (ICP – OES)
	Barium as Ba	
	Cadmium as Cd	
	Calcium as Ca	
	Chromium as Cr	
	Cobalt as Co	
	Copper as Cu	
	Iron as Fe	
	Lead as Pb	
	Magnesium as Mg	
Solid Waste, Municipal Solid Waste (MSW), Refuse-Derived Fuel (RDF)	Manganese as Mn	} USEPA 3060 A (1996) & USEPA 7196 A (1992)
	Nickel as Ni	
	Silver as Ag	
	Thallium as Tl	
	Zinc as Zn	
	Alkaline digestion and determination of Hexavalent Chromium as Cr <sup>6+</sup>	
	Total Hydrocarbon	
Solid Waste, Municipal Solid Waste (MSW), Refuse-Derived Fuel (RDF)	<u>Proximate Analysis</u>	
	Total Moisture Content	ASTM E 949-96
	Volatile Matter	ASTM E 897-93
	Ash Content	ASTM E 830-96
	Fixed Carbon	In-House Method: CV/001, (Based on ASTM E 949-96, ASTM E 897-93 and ASTM E 830- 96)

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## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Solid Waste, Municipal Solid Waste (MSW), Refuse-Derived Fuel (RDF) (continued)	<u>Ultimate Analysis</u>	
	Preliminary Treatment of Samples for Metal Analysis	ASTM E 926-94 (Practice B-Nitric-Sulphuric-Hydrofluoric Acid Digestion)
	Cadmium as Cd	ASTM E 885-96 (Direct Aspiration)
	Copper as Cu	ASTM E 885-96 (Direct Aspiration)
	Iron as Fe	ASTM E 885-96 (Direct Aspiration)
	Lead as Pb	ASTM E 885-96 (Direct Aspiration)
	Zinc as Zn	ASTM E 885-96 (Direct Aspiration)
	Chromium as Cr	ASTM E 885-96 (Direct Aspiration)
	Manganese as Mn	ASTM E 885-96 (Direct Aspiration)
	Nickel as Ni	ASTM E 885-96 (Direct Aspiration)
	Tin as Sn	ASTM E 885-96 (Direct Aspiration)
	Mercury as Hg	ASTM E 885-96 (Cold Vapour)
Sludge/ Sediment/ Refuse – Derived Fuel (RDF)/ Semi compose Fibre	Standard Test Method for Nitrogen in The Analysis Sample of Refuse-Derived Fuel	ASTM E 778-87 (Reapproved 1996)
	<u>Ultimate Analysis</u>	
	Potassium as K	ASTM E 926-94 (Practice B) Standard Practices For Preparing Refuse-Derived Fuel (RDF)
	Phosphorus as P	ASTM D 5198-92 (Reapproved 2003) Standard Practice for Nitric Acid Digestion of Solid Wastes

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## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
EU RoHS & EU REACH Compliance	Lead Mercury Cadmium Chromium	In-house Method SM067 based on USEPA 3050B
Paper, Paperboard & Wood Pulp	Hexavalent Chromium	USEPA 3060A & USEPA 7196A
Chemicals	<b>Polybrominated Biphenyls (PBB)</b>	IEC 62321: 2008
Metal Paints	2-Bromobiphenyl 4,4-Dibromooctafluorobiphenyl 3-Bromobiphenyl 4-Bromobiphenyl 2,2-Dibromobiphenyl 2,5-Dibromobiphenyl 2,6-Dibromobiphenyl 4,4-Dibromobiphenyl 2,4-Dibromobiphenyl 2,2,5-Tribromobiphenyl 2,4,5-Tribromobiphenyl 2,3,5-Tribromobiphenyl 2,2,4,5-Tetrabromobiphenyl 2,4,6-Tribromobiphenyl 3,3,5,5-Tetrabromobiphenyl 2,2,4,5,6-Pentabromobiphenyl 2,2,4,5,5-Pentabromobiphenyl	IEC 62321: 2008
Papers	<b>Polybrominated diphenyl ether (PBDE)</b>	IEC 62321: 2008
Plastics	2,2,4,4-Tetrabromobiphenyl 2,2,4,4,6-Pentabromobiphenyl 2,2,4,4,5-Pentabromobiphenyl	USEPA Method 3540C & USEPA Method 8270C
Electrical and Electronic product	Bis(2-ethylexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP) Dimethyl phthalate (DMP) Diethyl phthalate (DEP) Bis(2-ethoxyethyl) phthalate Dipentyl phthalate (DPP) Di-n-hexyl phthalate (DNHP) Dicyclohexyl phthalate (DCHP) Di-n-Octyl phthalate (DNOP) Dinonyl Phthalate (DNP)	

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Materials contained in ship structure or equipment  In reference to the Resolution MEPC 269 (68), 2015 Guidelines for the Development of the Inventory of Hazardous Material (IHM) and EU Regulation 1257/2013 on Ship Recycling	Asbestos (Bulk) by PLM (Sampling and Analysis)	NIOSH 9002
	Polychlorinated Biphenyls (PCBs) (Appendix 5) ( <b>organic</b> )	USEPA Method 3540C & USEPA Method 8270C
	Polychlorinated Naphthalenes (PCNs) (Appendix 6) ( <b>organic</b> )	USEPA Method 3540C & USEPA Method 8270C
	Ozone Depleting Substances (ODS) (Appendix 7) ( <b>organic</b> )	USEPA Method 5021A
	1,2,5,6,9,10 – Hexabromocyclodecane [Brominated Flame Retardant (HBCDD)] ( <b>organic</b> )	IEC 62321: 2008
	Perfluorooctane Sulfonic Acid (PFOS)	EM 201: 2010
	Polybrominated Biphenyls (PBB) (Appendix 8)	IEC 62321:2008
	Polybrominated Diphenyl Ether (PBDE) (Appendix 9)	IEC 62321:2008
	Short Chain Chlorinated Paraffins (C10-C13) SCCP	USEPA Method 3540C & USEPA Method 8270C (Screening)
	Anti-fouling compound [Tin as percentage (% tin)]	In-house Method SM068 based on USEPA 3050B (ICP OES)
	Cadmium and Cadmium Compounds (as Total Cadmium)	In-house Method SM067 based on USEPA 3050B
	Lead and Lead Compounds (as Total Lead)	In-house Method SM067 based on USEPA 3050B
	Chromium and Chromium Compound (as Total Chromium)	In-house Method SM067 based on USEPA 3050B
	Mercury and Mercury Compound (as Total Mercury)	In-house Method SM067 based on USEPA 3050B
	Chromium Hexavalent (Cr <sup>6+</sup> )	USEPA 3060A & USEPA 7196 A

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Palm Oil Mill Effluent	BOD <sub>5</sub>	D.O.E Revised Standard Method (1985) for analysis of rubber and palm oil mill effluent, 3 <sup>rd</sup> Edition Alternative Method
Co-compost	Ash	In-house Method SM094 based on MS 417: Part 2: 1994
	Moisture	In-house Method SM095 based on MS 417: Part 2: 1994 (Method I)
	Phosphorus (P)	In-house Method SM103 (Modified based on MS 417: Part 4: 1994) UV
	Potassium (K)	In-house Method SM107 (Modified based on MS 417: Part 5: 1994) ICP
	Boron (B)	In-house Method SM106 (Modified based on MS 417: Part 7: 2001) UV
	pH	In-house method SM092 based on MS 2457: 2012
	Zinc Iron Manganese Copper	In-house Method SM096 based on USEPA 3050B: SAMPLE PREPARATION & In-house Method SM096 based on USEPA 3050B SAMPLE ANALYSIS BY ICP-OES
	Calcium	In-house Method SM104 based on MS 417: Part 8: 1997/ICP
	Magnesium	In-house Method SM 105 based on MS 417: Part 6: 1994/ICP
Plant/Foliar /Rachis	Zinc Iron Manganese Copper	In-house Method SM096 based on USEPA 3050B: SAMPLE PREPARATION & In-house Method SM096 based on USEPA 3050B SAMPLE ANALYSIS BY ICP-OES
	Ash	In-house Method SM094 based on MS 417: Part 2: 1994
	Moisture	In-house Method SM095 based on MS 417: Part 2: 1994 (Method 1)
	pH	In-house Method SM092 based on MS 2457: 2012

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Fertilizer	pH	In-house Method SM092 based on MS 2457: 2012
	Moisture	In-house Method SM095 based on MS 417: Part 2: 1994 (Method 1)
	Total Phosphorus (as %P <sub>2</sub> O <sub>5</sub> )	MS 417: Part 4: 1994/UV
	Water Soluble Phosphorus (as % P <sub>2</sub> O <sub>5</sub> )	MS 417: Part 4: 1994/UV
	Calcium (as CaO)	In-house Method SM099 (Modified based on MS 417: Part 8: 1997)/ICP
	Total Magnesium (as MgO)	In-house Method SM101 (Modified based on MS 417: Part 6: 1994)/ICP
	Total Boron as (B <sub>2</sub> O <sub>3</sub> )	MS 417: Part 7: 2001 (UV)
	Total Potassium (as K <sub>2</sub> O)	In-house method SM 100A (Modified based on MS 417: Part 5: 1994)/ICP
Soil	pH	In-house Method SM092 based on MS 2457: 2012
	Conductivity	In-house Method SM093 based on MS 2458: 2012 (Confirmed: 2018)
	Sodium (Na)	Acid Digestion for sediment, sludge and soil (USEPA 3050B)
	Potassium (K)	
	TOC	In-house Method SM125 – Dumas Method using CN Analyser (by calculation)
Co-compost Fertilizer Soil Plant/Foliar /Rachis	Nitrogen (N)	In-house Method SM121 – Dumas Method using CN Analyser
	Carbon / Nitrogen Ratio	In-house method SM123 – Dumas Method using CN Analyser (Calculation)
	Carbon (C)	In-house Method SM122 – Dumas Method Using CN Analyser (by calculation)

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Agricultural Products and Materials  Foliar, Rachis, Plant	Dry Ashing and Preparation of Sample Extract Solution	MS 677 : Pt. II : 1980
	Nitrogen	MS 677 : Pt. III : 1980
	Phosphorus	In House Method SM085 (Modify based on MS 677: Pt.IV: 1980 (ICP))
	Potassium	In House Method SM085 (Modify based on MS677: Pt.V: 1980 (ICP))
	Magnesium	In House Method SM085 (Modify based on MS677: Pt.VII: 1980 (ICP))
	Calcium	In House Method SM085 (Modify based on MS677: Pt.VI: 1980 (ICP))
	Boron	In House Method SM085 (Modify based on MS417 Part VII: 2001)

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Soil	Volatile Organic Compound (VOC)  1) 1,1-Dichloroethane 2) Chloroprene 3) 2,2-Dichloropropane 4) Bromochloromethane 5) Chloroform 6) 1,1,1-Trichloroethane 7) Carbon Tetrachloride 8) Benzene 9) 1,2-Dichloroethane 10) Trichloroethene 11) 1,2-Dichloropropane 12) Dibromomethane 13) Bromodichloromethane 14) 1,3-Dichloropropene 15) Toluene 16) Trans 1,3-Dichloropropene 17) 1,1,2-Trichloroethane 18) Tetrachloroethene 19) 1,3-Dichloropropane 20) Dibromochloromethane 21) Dibromoethane 22) 1,1,2,2-Tetrachloroethane 23) m-Xylene 24) o-Xylene 25) Bromoform 26) Cumene 27) Bromobenzene 28) 1,2,3-Trichloropropane 29) n-propylbenzene 30) o-chlorotoluene 31) p-chlorotoluene 32) 1,2,4-Trimethylbenzene 33) Cymene 34) 1,3,5-Trimethylbenzene 35) Sec-butylbenzene 36) 1,2-Dichlorobenzene 37) 1,3-Dichlorobenzene 38) n-butylbenzene 39) 1,2,3-Trichlorobenzene 40) Hexachloro-1,3-butadiene 41) 1,2,4-Trichlorobenzene	USEPA 5021A

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## SCOPE OF TESTING: CHEMICAL

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Industrial Hygiene	Asbestos and Other Fiber by PCM	NIOSH 7400
Personal and Area Chemical Exposure Monitoring (Sampling and Analysis)	Mercury	NIOSH 6009
In compliance to the OSHA Act 1994 and the USECHH Regulation 2000 (Use & Standards Of Exposure Of Chemical Hazardous To Health Regulations 2000).	Aluminium Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Tin Zinc	NIOSH 7303
Local Exhaust Ventilation (LEV), Fume hood.	Face Velocity Capture Velocity Static Pressure (SP) Duct Velocity Revolution Per Minute (RPM)	<b>In house method SM 063:</b>  Air Velocity Meter using Hot Wire Anemometer  Air Velocity Meter using Pitot Tube  Laser Tachometer

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
<p>Indoor Air Quality (IAQ) Assessment monitoring</p> <p>In compliance to The Indoor Air Quality as per Industry Code of Practice on Indoor Air Quality 2010 (ICOP IAQ 2010), Department Of Occupational Safety And Health, Ministry Of Human Resources, Malaysia, JKKP DP(S) 127/379/4-39.</p>	Total Volatile Organic Compound	<b>In House Method SM 062:</b>  VOC monitor using PID sensor
	Carbon Dioxide (CO <sub>2</sub> )	Carbon dioxide monitor using non-dispersive infrared sensor
	Carbon Monoxide(CO)	Carbon monoxide monitor using electrochemical sensor
	Relative Humidity Air Temperature Air movement	Air Velocity Meter using hot wire anemometer
	Respirable Particulates	Digital Dust Monitor using light scattering
	Ozone	Ozone monitor using OZL sensor.
	Formaldehyde	Formaldemeter using electrochemical formaldehyde sensor
	Total bacterial counts (Sampling and Analysis)	In house method SM062 based on NIOSH 0800 (1998) (Tryptic Soy Agar (TSA))
	Total fungal counts (Sampling and Analysis)	In house method SM062 based on NIOSH 0800 (1998) (Malt Extract Agar (MEA))

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### SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Blood	Aluminium (Al) Arsenic (As) Barium (Ba) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Tin (Sn) Zinc (Zn)	In-house Method SM002 (Metals in Blood) based on NIOSH 8005
Urine	Aluminium (Al) Arsenic (As) Barium (Ba) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Tin (Sn) Zinc (Zn)	In-house Method SM001 (Metals in Urine) based on NIOSH 8310
Drinking Water Surface Water River Water Ground Water	SVOC PAH TOC	APHA 6410B APHA 6410B APHA 5310B

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### Signatories:

- |    |                                  |                            |
|----|----------------------------------|----------------------------|
| 1. | Dr. Shanmugam Suberamaniam (All) | IKM No.: M/1095/2640/96/99 |
| 2. | Punitha a/p Perumall             | IKM No.: M/2795/5536/2009  |
| 3. | Kalaivani a/p Varadarajan        | IKM No.: L/1892/6259/12 (  |

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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
Effluent/ Water/ River Water/ Surface Water (Site Testing)	pH	APHA 4500 H <sup>+</sup> B
	Temperature	APHA 2550 B
	Dissolved Oxygen	APHA 4500 O G
	Turbidity	APHA 2130 B
Noise Measurement/Acoustic	Description and Measurement of Environmental (Factory Boundaries) Noise Level (Intensity and Frequency) – Basic Quantities and Procedures	ISO 1996-1:2003 (E)
Vibration Measurement	Description and Measurement of Vibration Level on Construction and Open Site	BS 5228: Part 2:2009
Chimney/ Stack Air Emission – Flue Gas Sampling	Determination of Concentration and Mass Flow of Particulate Matter Using Isokinetic Method	MS 1596: 2003
	PCDDs and PCDF Dioxin and Furan (Sampling)	USEPA 23
Effluent/Water/River Water/ Surface Water Groundwater Marine water Estuarine water Coastalwater (Site Testing)	Flow rate	In house method SM 090 Based On Manufacturer Instruction Manual GLOBAL WATER
	Temperature	APHA 2550B
	Dissolved Oxygen	APHA 4500 O G
	Salinity	APHA 2520 A
	Turbidity	APHA 2130 B
	Conductivity	APHA 2520 B
	pH	APHA 4500 H <sup>+</sup> B

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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
Ambient Air (Site Testing)	Sulphur dioxide(SO <sub>2</sub> ),	In house method SM 089. Based On Manufacturer Instruction Manual using B-smart sensor
	Ozone (O <sub>3</sub> )	In house method SM 088 Ozone monitor using OZL sensor
	Carbon Monoxide (CO)	In-house Method SM099A based on ToxiRAE Pro User's Guide Carbon Monoxide monitor using non-dispersive infrared sensor
	Carbon Dioxide (CO <sub>2</sub> )	In-house Method SM0099B based on ToxiRAE Pro CO <sub>2</sub> User's Guide Carbon Dioxide monitor using non-dispersive infrared sensor
	Relative Humidity	In-house Method SM099C based on Velocical Air Velocity Meter using hot wire anemometer
	Total Volatile Organic Compound	In-house Method SM099D based on MiniRAE Lite User's Guide VOC monitor using PID sensor

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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
Ambient Air	Sampling and Analysis of Particulate Matter (PM <sub>2.5</sub> ) in the Atmosphere by using High Volume sampler (Tisch International)	In house method SM 087 based on EPA code of federal regulations. Extension of USEPA 40 Part 50, Appendix J
	Sampling and Analysis of Particulate Matter (PM <sub>10</sub> ) in the Atmosphere by using High Volume sampler	USEPA 40 Part 50, Appendix J
	Sampling and Analysis of Particulate Matter (PM <sub>10</sub> ) in the Atmosphere Using PM 10 High Volume Sampler	ISC 501 (11101-01-70T)
	Determination of Suspended Particulate Matter (TSP) in the Atmosphere (High-Volume Method) Using High Volume Sampler (HVS)	USEPA 40 Part 50, Appendix B
	Lead (Pb)	NIOSH 7303
	Cadmium (Cd)	NIOSH 7303
	Calcium (Ca)	NIOSH 7303
	Total Chromium (Cr)	NIOSH 7303
	Copper (Cu)	NIOSH 7303
	Iron (Fe)	NIOSH 7303
	Mercury (Hg)	NIOSH 7303
	Nitrogen Dioxide (NO <sub>2</sub> )	APHA ISC 408 (42602-03-73T)

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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
Air Emission - Flue Gas Monitoring	Nitrogen Oxide (NO <sub>x</sub> )	In-house Method SM100 based on B-smart sensor operation manual
Dust/Particulate Emission	Determination of Particulate Emissions from Stationary Sources	USEPA Method - 5 (Isokinetic Stack Monitoring)
H <sub>2</sub> SO <sub>4</sub> , SO <sub>2</sub>	Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources	USEPA Method - 8 (Isokinetic Stack Monitoring)
Cu, Zn, As, Sb, Pb, Cd, Hg	Determination of Metals Emissions from Stationary Sources	USEPA Method - 29 (Isokinetic Stack Monitoring)
Air Emission	Dark Smoke	BS 2742:2009 (Ringelmann Smoke Chart)

**Note:**

1. USEPA: United State Environmental Protection Agency, 2000 (5<sup>th</sup> Edition)
2. APHA: American Public Health Association, 2005 (21<sup>st</sup> Edition)
3. OSRMA: Official, Standardised & Recommended Methods of Analysis, 1973 (2<sup>nd</sup> Edition)
4. ISO : International Organization for Standardization
5. ASTM : American Society for Testing and Materials
6. BS : British & International Standards
7. ISC : Intersociety Committee Methods of Air Sampling and Analysis, 3<sup>rd</sup> ed., 1989
8. NIOSH - National Institute of Occupational Safety and Health.

**Signatories:**

- |    |   |  |
|----|---|--|
| 1. | <b>Dr. Shanmugam Suberamaniam (All)</b> | IKM No.: M/1095/2640/96/99 (All)   |
| 2. | <b>Punitha a/p Perumall</b>             | IKM No.: M/2795/5536/2009 (Water/Effluent, Materials Contained in Ship Structure of Equipment, Compost, Plant, Fertilizer and Soil Only) |
| 3. | <b>Kalaivani a/p Varadarajan</b>        | IKM No.: L/1892/6259/12 (Stack Monitoring, Dark Smoke, ROHS and Organic only)  |
| 4. | <b>Megala a/p Muniandy</b>              | Air, Noise, Vibration. Water (WQ1) (Under supervision)   |
| 5. | <b>Sharmila a/p Rajahenderan</b>        | Air, Noise, Vibration. Water (WQ1) (Under supervision)   |
| 6. | <b>Asrifa binti Saari</b>               | Air, Noise, Vibration. Water (WQ1) (Under supervision)   |
| 7. | <b>Jivitha a/p Veralingam</b>           | IKM No.: L/1893/6260/12 (Air, Noise, Vibration. Water) (WQ1) (Under supervision)   |
| 8. | <b>Kayathri a/p Karunanithi</b>         | Asbestos testing (under supervision)   |

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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 Waste Water Potable Water Drinking Water Industrial Water River Water	Heterotrophic Plate Count/ Total Plate Count	APHA 9215 B (2022) (23 <sup>rd</sup> Edition) (Pour Plate)
	Total Coliform Count	APHA 9222 B (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	Total Faecal Coliform Count	APHA 9222 D (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	<i>E.coli</i> count	APHA 9222 I (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	<i>Legionella spp</i>	USEPA 1603 (2014) ( Membrane filtration Technique modified M-TEC agar APHA 9260J (2022) (23 <sup>rd</sup> Edition) (Detection)
Marine Water Estuarine Water Coastal Water	Total Coliform Count	APHA 9222 B (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	Total Faecal Coliform Count	APHA 9222 D (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	<i>E.coli</i> count	APHA 9222 I (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)
	<i>Enterococci spp</i>	USEPA 1603 (2014) ( Membrane filtration Technique modified M-TEC agar APHA 9230 C (2022) (23 <sup>rd</sup> Edition) (Membrane Filtration Technique)

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### SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Clean Room Assessment	Total bacterial counts (Sampling and Analysis)	In house method (SM062) based on NIOSH 0800 (1998) (Tryptic Soy Agar (TSA)
	Total fungal counts (Sampling and Analysis)	In house method (SM062) based on NIOSH 0800 (1998) (Malt Extract Agar (MEA)
Pharmaceutical Item/Traditional Medicines/Toiletries	Total Aerobic Microbial Count  Total Yeast and Mold Count  Bile Tolerant Gram Negative Bacteria  <i>Escherichia coli</i> <i>Staphylococcus aureus</i> <i>Pseudomonas aeruginosa</i> <i>Salmonella spp</i>	BP (Harmonised Method) 2022 (Appendix XVI BV 543-551)

### Signatories:

1. Thamayanthi a/p Rajendran (Microbiology, Biology)
2. Megala a/p Muniandy (Microbiology, Biology)
3. Satish Raj a/l Krishnan
4. Vanitha a/p Ganison

MJMM 1096 (Microbiology)  
MJMM 1095 (Microbiology)

### Notes:

- |           |  |
|-----------|--|
| 1. APHA   | American Public Health Association                   |
| 2. BP     | British Pharmacopoeia                                |
| 3. USE PA | United States Environmental Protection Agency        |
| 4. NIOSH  | National Institute of Occupational Safety and Health |



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**APPENDIX 1  
POLYCHLORINATED BIPHENYLS (PCBs)**

1. 2-Chlorobiphenyl (2051-60-7)
2. 2,3-Dichlorobiphenyl (16605-91-7)
3. 2,4,5-Trichlorobiphenyl (15862-07-4)
4. 2,2',4,4'-Tetrachlorobiphenyl (2437-79-8)
5. 2,2',3',4,6-Pentachlorobiphenyl (60233-25-2)
6. 2,2',4,4',5,6'-Hexachlorobiphenyl (60145-22-4)
7. 2,2',3,3',4,4',6-Heptachlorobiphenyl (52663-71-5)
8. 2,2',3,3',4,5',6,6'-Octachlorobiphenyl (40186-71-8)

**APPENDIX 2  
ORGANOCHLORINE PESTICIDES**

1. 4,4'-DDD (72-54-8)
2. 4,4'-DDE (72-55-9)
3. 4,4'-DDT (50-29-3)
4. Aldrin (309-00-2)
5. alpha-BHC (319-84-6)
6. Beta-BHC (319-85-7)
7. Cis-Chlordane (5103-71-9)
8. Delta-BHC (319-86-8)
9. Dieldrin (60-57-1)
10. Endosulfan I (959-98-8)
11. Endosulfan II (33213-65-9)
12. Endosulfansulfate (1031-07-8)
13. Endrin (72-20-8)
14. Endrin aldehyde (7421-93-4)
15. Endrin ketone (53494-70-5)
16. gamma-BHC (Lindane) (58-89-9)
17. Heptachlor (76-44-8)
18. Heptachlorepoxy (isomer B) (1024-57-3)
19. Methoxychlor (72-43-5)
20. Trans-Chlordane (5103-74-2)

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**APPENDIX 3**  
**POLYAROMATIC HYDROCARBONS (PAHs)**

1. 2,4-Dinitrotoluene (121-14-2)
2. Acenaphthylene(208-96-8)
3. Benzo(a)pyrene(50-32-8)
4. Benzo(b)fluoranthene(205-99-2)
5. Benzo(g,h,i)perylene(191-24-2)
6. Benzo(k)fluoranthene(207-08-9)
7. Benzyl butyl phthalate(85-68-7)
8. Bis(2-ethylhexyl)phthalate (117-84-0)
9. Diethylphthalate(84-66-2)
10. Dimethylphthalate(131-11-3)
11. Di-n-butylphthalate(84-74-2)
12. Fluoranthene(206-44-0)
13. Fluorene(86-73-7)
14. Hexachlorobenzene(118-74-1)
15. Hexachlorocyclopentadiene(77-47-4)
16. Indeno(1,2,3-cd)pyrene (193-39-5)
17. Isophorone (CAS 78-59-1)
18. Phenanthrene(85-01-8)
19. Pyrene(129-00-0)

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**APPENDIX 4**  
**SEMIVOLATILE ORGANIC COMPOUNDS (SVOC)**

1. 1-Methylnapthalene (90-120-0)
2. 2-Methylnapthalene (91-57-6)
3. 1,4-Dichlorobenzene (106-46-7)
4. 2-Chlorophenol (95-57-8)
5. 2-Chloronapthalene (91-58-7)
6. 2-Methylphenol (95-48-7)
7. 2-Nitroaniline (88-74-4)
8. 2,4-Dichlorophenol (120-83-2)
9. 2,4-Dimethylphenol (105-67-9)
10. 2,4-Dinitrotoluene (121-14-2)
11. 2,4,5-Trichlorophenol (95-95-4)
12. 2,4,6-Trichlorophenol (88-06-2)
13. 2,3,4,6-Tetrachlorophenol (58-90-2)
14. 3-Methylphenol (108-39-4)
15. 4-Bromophenyl phenyl ether (101-55-3)
16. 4-Chloroaniline (106-47-8)
17. 4-Chloro-3-methylphenol (59-50-7)
18. 4,6-Dinitro-2-methylphenol (534-52-1)
19. Acenaphthylene (208-96-8)
20. Aniline (62-53-3)
21. Benzo (a) pyrene (50-32-8)
22. Benzo (b) fluoroanthene (205-99-2)
23. Benzo (g,h,i) perylene (191-24-2)
24. Benzo (k) fluoroanthene (207-08-09)
25. Benzyl alcohol (100-51-6)
26. Benzyl butyl phthalate (85-68-7)
27. Bis (2-chloroethyl) ether (114-44-4)
28. Bis (2-chloroethoxy) methane (111-91-1)
29. Bis (2-chloroisopropyl) ether (108-60-1)
30. Bis (2-ethylhexyl) phthalate (117-81-7)
31. Dibenzofuran (132-64-9)
32. Diethyl phthalate (84-66-2)
33. Dimethyl phthalate (131-11-3)
34. Di-n-butyl phthalate (84-74-2)
35. Diphenylamine (122-39-4)
36. Fluoranthene (206-44-0)
37. Fluorene (86-73-7)
38. Hexachlorobenzene (118-74-1)
39. Hexachlorobutadiene (87 68 3)
40. Hexachlorocyclopentadiene (77 47-4)
41. Hexachloroethane (67-72 1)
42. Indeno (1,2,3 cd) pyrene (207 08 9)
43. Isophorone (78-59-1)
44. Phenanthrene (8S 01-8)
45. Phenol (108 95 2)
46. Pyrene (129-00 0)

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**APPENDIX 5  
POLYCHLORINATED BIPHENYLS (PCBs)**

1. 2-chlorobiphenyl
2. 2,3-Dichlorobiphenyl
3. 2,2',5'-Trichlorobiphenyl
4. 2,4',5'-Trichlorobiphenyl
5. 2,2',3,5'-Tetrachlorobiphenyl
6. 2,2',5,5'-Tetrachlorobiphenyl
7. 2,3',4,4'-Tetrachlorobiphenyl
8. 2,2',3,4,5'-Pentachlorobiphenyl
9. 2,2',4,5,5'-Pentachlorobiphenyl
10. 2,3,3',4',6-Pentachlorobiphenyl
11. 2,2',3,4,4',5-Hexachlorobiphenyl
12. 2,2',3,4,5,5'-Hexachlorobiphenyl
13. 2,2',3,5,5',6-Hexachlorobiphenyl
14. 2,2',4,4',5,5'-Hexachlorobiphenyl
15. 2,2',3,3',4,4',5-Heptachlorobiphenyl
16. 2,2',3,4,4',5,5'-Heptachlorobiphenyl
17. 2,2',3,4,4',5',6-Heptachlorobiphenyl
18. 2,2',3,4',5,5',6-Heptachlorobiphenyl
19. 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl

**APPENDIX 6  
POLYCHLORINATED NAPHTHALENES (PCN)**

1. 1,2,3,4-Tetrachloronaphthalene
2. Octachloronaphthalene

**APPENDIX 7  
OZONE DEPLETING SUBSTANCES (ODS)**

1. 1,1,1 – Trichloroethane
2. 1,1,2 – Trichloroethane
3. 1,1 – Dichloroethane
4. 1,2 – Dichloroethane
5. 1,2 – Dichloropropane
6. 1,3 – Dichloropropane
7. 2,2 – Dichloropropane
8. Bromo chloroethane
9. Carbon tetrachloride
10. Chloroform
11. Hexachlorobutadiene
12. Tetrachloroethene



NO: SAMM 213

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(Continued)

13. Trans – 1,3 – dichloropropene
14. Trichloroethene
15. Trichlorofluoromethane (CFC-11)
16. 1,1,2-Trichlorotrifluoroethane (CFC-113)
17. 1,2-Dichlorotetrafluoroethane (CFC-114)

**APPENDIX 8  
POLYBROMINATED BIPHENYLS (PBB)**

1. 2-Bromobiphenyl
2. 4,4- Dibromooctafluorobiphenyl
3. 3-Bromobiphenyl
4. 4-Bromobiphenyl
5. 2,2'- Dibromobiphenyl
6. 2,5- Dibromobiphenyl
7. 2,6- Dibromobiphenyl
8. 4,4' – Dibromobiphenyl
9. 2,4- Dibromobiphenyl
10. 2,2',5 –Tribromobiphenyl
11. 2,4,5 –Tribromobiphenyl
12. 2,3,5 – Tribromobiphenyl
13. 2,2',4,5- Tetrabromobiphenyl
14. 2,4,6-Tribromobiphenyl
15. 3,3',5,5' –Tetrabromobiphenyl
16. 2,2',4,5,6-Pentabromobiphenyl
17. 2,2',4,5,5- Pentabromobiphenyl

**APPENDIX 9  
POLYBROMINATED DIPHENYL ETHER (PBDE)**

1. 2, 2',4,4' – Tetrabromodiphenyl
2. 2,2',4,4',6 – Pentabromobiphenyl
3. 2,2',4,4',5 – Pentabromobiphenyl



NO: SAMM 213

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**APPENDIX 10  
SVOC (WATER)**

1. Phenol
2. Bis (2-chloroethyl) ether (111-44-4)
3. 2-chlorophenol
4. 1,4-dichlorobenzene
5. 2-methylphenol
6. Bis-(2-chloroisopropyl)
7. 3-methylphenol
8. Isophorone
9. 2,4-dimethylphenol
10. Bis (2-chloroMethane)
11. 2,4-dichlorophenol
12. 4-chloroaniline
13. Hexachlorobutadiene
14. 4-chloro-3-methylphenol
15. 2,4,6-Trichlorophenol
16. 2,4,5-Trichlorophenol
17. 2-Chloronaphthalene
18. Dibenzofuran
19. 2,3,4,6-Tetrachlorophenol
20. Diethylphthalate
21. Diphenylamine
22. 4-Bromophenyl phenyl ether
23. Hexachlorobenzene
24. 3,6. Di-n-butyl phthalate
25. Benzyl butyl phthalate
26. Bis(2-ethylhexyl) phthalate

**APPENDIX 11  
PAH (WATER)**

1. 2-methylnaphtalene
2. 1-methylnaphtalene
3. Acenaphthalene
4. Fluorene
5. Phenanthrene
6. Fluoranthene
7. Pyrene
8. Indeno (1,2,3-cd) pyrene
9. Benzo(k) fluoranthene
10. Benzo(b) fluoranthene
11. Benzo (a) pyrene
12. Benzo (ghi) perylene

## Award from IKM



### *Institut Kimia Malaysia*

This is to certify that

#### **CHEMVI LABORATORY SDN BHD**

NO. 22A, JALAN SUNGAI JELUH 32/129,  
NOUVELLE KEMUNING INDUSTRIAL PARK, BUKIT RIMAU,  
SEC. 32, 40460 SHAH ALAM, SELANGOR

has been bestowed the

#### **IKM LABORATORY EXCELLENCE AWARD**

In the testing of

1. Potable and Domestic/Industrial Water
2. Effluent
3. Sediment, Sludge, Soil
4. Municipal Solid Waste, Refuse-derived Fuel
5. Industrial Hygiene & Air Monitoring

DATE: 02 DECEMBER, 2016



.....  
Dato' Dr Ong Eng Long  
President  
Institut Kimia Malaysia

.....  
Mr Chang Hon Fong  
Chairman  
IKM Laboratory  
Excellence Awards  
Committee 2016

# ISO 14001:2015 Certificate

## Certificate of Registration

*This is to certify that compliance of Environmental Management System of*

### **CHEMVI LABORATORY SDN. BHD.**

No. 22A, Jalan Sungai Jeluh 32/192,  
Nouvelle Kemuning Industrial Park, Bukit Rimau,  
Seksyen 32, Selangor - 40460 Shah Alam, Malaysia.

*Has been assessed and approved to the requirements of*

## **ISO 14001 : 2015**

*for the scope of activities :*

**Environmental , Chemical, Microbiological, Testing Analysis and Industrial Related Services**

Certificate No. : RE65/JA/RE/2818 Initial Issue date : 15.04.2022  
JAS-ANZ Accreditation No : M4430310IC Re-Certification Date : 17.05.2025  
Valid Date : 14.04.2026



**JAS-ANZ**



[www.jas-anz.org/register](http://www.jas-anz.org/register)



Quality Seal

For and on behalf of Quest Certification (P) Ltd

Head of Certification

*Certification is valid till (14.04.2028) subject to the successful completion of surveillance audit on 14.04.2026 and 14.04.2027.  
Upon successful completion of surveillance audit, a new certificate with extended validity will be issued.*

*The Validity of this Certificate can be verified from [www.questcertification.com](http://www.questcertification.com)*

*The Registration does not assure the quality of yields under the firm's production / Services*

**Quest Certification (P) Ltd**

*Accredited by Joint Accreditation System of Australia and New Zealand ([www.jas-anz.org/register](http://www.jas-anz.org/register))*

ISO 14001 : 2015



# SAFETY AND HEALTH POLICY

**CHEMVI LABORATORY SDN. BHD.**

## SAFETY AND HEALTH POLICY

CHEMVI, as a specialized recycling of materials, shall fully committed to ensure our responsibility towards providing a safe and healthy working environment which is fundamental to sustain the co-existence of our business operations.

We are committed to :-

- Comply to all applicable laws and regulations of the country, international agreements and requirements related to safety and health and the appropriate code of practice.
- Responsible to encourage everyone to support the company's overall safety and health programs which includes all our contractors, suppliers, customers and also public.
- Facilitate and maintain safe buildings, equipments services and operating safe system of work.
- Responsible to provide the necessary resources, systems and trainings to all levels of employees.
- Identify , assess and manage risk through regular safety and health inspection and a proactive action to prevent accidents during our operations.


This policy shall be made available to the public where appropriate.

We, the management of CHEMVI, are fully committed to this policy as part of our contribution to society.

  
Managing Director  
CHEMVI LABORATORY SDN. BHD.  
23 FEBRUARY 2012

# IKM Registration (Dr Shanmugam)

Kaedah 5(3)  
Rule



**PERAKUAN PENGEKALAN TAHUNAN**  
**ANNUAL RETENTION CERTIFICATE**

*Maka inilah diperakui bahawa*  
*This is to certify that*

**Shanmugam a/l Suberamaniam, ChM Dr.**  
(Nama penuh) (Name in full)

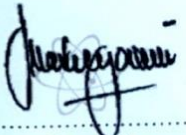
beralamat  
of (Address)

Chemvi Laboratory Sdn Bhd,  
No 22A, Jalan Sungai Jeluh 32/192,  
Nouvelle Kemuning Industrial Park, Bukit Rimau, Seksyen 32,  
40460 Shah Alam, Selangor

yang didaftarkan di bawah Akta Ahli Kimia 1975, dan yang Perakuan  
Pendaftarannya bernombor **M/1095/2640/96/99**  
who is registered under the Chemists Act 1975, and whose Certificate of  
Registration bears the Number

telah dikekalkan dalam daftar anggota-anggota Institut Kimia Malaysia sehingga  
31 haribulan Disember **2025**  
has been retained on the register of members of the Malaysian Institute of  
Chemistry until 31<sup>st</sup> December

Dikeluarkan pada **11 December 2024**  
Issued on

  
Pendaftar,  
Institut Kimia Malaysia.  
Registrar,  
Malaysian Institute of  
Chemistry

Bayaran sebanyak RM 100 telah dibayar.  
Fee RM 100 paid.



Member of The Royal Society of Chemistry  
(Dr Shanmugam)

Founded 1841  
Incorporated by Royal Charter 1848  
Patron Her Majesty the Queen



THIS IS TO CERTIFY THAT

***SUBERAMANIAM SHANMUGAM***

HAS BEEN ADMITTED AS A

MEMBER

OF

THE ROYAL SOCIETY OF CHEMISTRY

and is entitled to use the designatory letters MRSC

President

A handwritten signature in dark ink, appearing to read 'David Phillips'.

Chief Executive

A handwritten signature in dark ink, appearing to read 'Raven Parker'.

Date of admission

**30 September 2011**

Membership Number

**474980**

The certificate is issued subject to the provisions of the Charter and By-Laws  
Registered Charity Number 207890

# IKM Registration (Ms Sukunah)

		Kaedah 5(3) Rule
<b>PERAKUAN PENGEKALAN TAHUNAN</b> <b>ANNUAL RETENTION CERTIFICATE</b>		
<i>Maka inilah diperakui bahawa</i> <i>This is to certify that</i>		
<b>Sukunah A/P Pachiappan, ChM</b> (Nama penuh) (Name in full)		
beralamat of (Address)	Chemvi Laboratory Sdn Bhd, No 22A, Jalan Sungai Jeluh 32/129, Nouvelle Kemuning Industrial Park, Bukit Rimau, Seksyen 32, 40460 Shah Alam, Selangor	
yang didaftarkan di bawah Akta Ahli Kimia 1975, dan yang Perakuan Pendaftarannya bernombor <b>M/2718/5404/08</b> who is registered under the Chemists Act 1975, and whose Certificate of Registration bears the Number		
telah dikekalkan dalam daftar anggota-anggota Institut Kimia Malaysia sehingga 31 haribulan Disember <b>2025</b> has been retained on the register of members of the Malaysian Institute of Chemistry until 31 <sup>st</sup> December		
Dikeluarkan pada Issued on	<b>31 December 2024</b>	
 Pendaftar, Institut Kimia Malaysia. Registrar, Malaysian Institute of Chemistry		
Bayaran sebanyak RM 100 telah dibayar. Fee RM 100 paid.		



# IKM Registration (Ms Punitha)

		Kaedah 5(3) Rule
<b>PERAKUAN PENGEKALAN TAHUNAN</b> <b>ANNUAL RETENTION CERTIFICATE</b>		
<i>Maka inilah diperakui bahawa</i> <i>This is to certify that</i>		
<b>Punitha a/p Perumall, ChM</b> (Nama penuh) (Name in full)		
beralamat of (Address)	No. 22A, Jalan Jelun 32/192, Nouvelle Kemuning Industrial Park, Bukit Rimau, Section 32, 40460 Shah Alam, Selangor	
yang didaftarkan di bawah Akta Ahli Kimia 1975, dan yang Perakuan Pendaftarannya bernombor <b>M/2795/5536/09</b> <i>who is registered under the Chemists Act 1975, and whose Certificate of Registration bears the Number</i>		
telah dikekalkan dalam daftar anggota-anggota Institut Kimia Malaysia sehingga 31 haribulan Disember <b>2025</b> <i>has been retained on the register of members of the Malaysian Institute of Chemistry until 31<sup>st</sup> December</i>		
Dikeluarkan pada <b>3 December 2024</b> <i>Issued on</i>		
Bayaran sebanyak RM 100 telah dibayar. <i>Fee RM 100 paid.</i>		 Pendaftar, Institut Kimia Malaysia. Registrar, Malaysian Institute of Chemistry



# Chemvi Laboratory MOF Certificate



## KEMENTERIAN KEWANGAN MALAYSIA SIJIL AKUAN PENDAFTARAN SYARIKAT

**NO. SIJIL** : K60672945074008714  
**NO. RUJUKAN PENDAFTARAN** : 357-02064237  
**TEMPOH SAH LAKU** : 02/12/2024 - 07/12/2027

**Bahawa dengan ini diperakui syarikat :**

CHEMVI LABORATORY SDN. BHD. ( 514202-D )  
NO 22A, JALAN SUNGAI JELUH 32/192  
NOUVELLE KEMUNING INDUSTRIAL PARK  
BUKIT RIMAU, SECTION 32  
PETALING  
40460 SHAH ALAM  
SELANGOR, MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang bekalan/perkhidmatan di bawah sektor, bidang dan sub-bidang seperti di Lampiran A. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B. Individu yang diberi kuasa oleh syarikat bagi urusan perolehan Kerajaan adalah seperti berikut :

DOKTOR SHANMUGAM A/L SUBERAMANIAM	700711086283	DIRECTOR
DOKTOR SUKUNAH A/P PACHAIAPPAN	720802105900	DIRECTOR
CIK AZURA AIDA BINTI AZIZ	770822145702	SALES/HR MANAGER

t.t

**DATO' INDERA AB RAHIM BIN AB RAHMAN**

Bahagian Perolehan Kerajaan  
*b.p.* Ketua Setiausaha Perbendaharaan  
Kementerian Kewangan Malaysia

**Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia :** 02/12/2024

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

**LAMPIRAN A**

**NO SIJIL** : K60672945074008714  
**NO RUJUKAN PENDAFTARAN** : 357-02064237  
**TEMPOH SAH LAKU** : 02/12/2024 - 07/12/2027

BIL	TARIKH DAFTAR BIDANG	KOD BIDANG	KETERANGAN	STATUS
1	22/11/2024	060101	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA MAKMAL	Aktif
2	22/11/2024	060102	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA INDUSTRI	Aktif
3	22/11/2024	060103	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA PEMPROSES AIR	Aktif
4	22/11/2024	222703	PERKHIDMATAN/ PERKHIDMATAN LAIN-LAIN/ BIOTEKNOLOGI	Aktif
5	22/11/2024	222704	PERKHIDMATAN/ PERKHIDMATAN LAIN-LAIN/ PENSIJILAN DAN PENGIKTIRAFAN	Aktif
6	22/11/2024	222708	PERKHIDMATAN/ PERKHIDMATAN LAIN-LAIN/ PENILAI DAN PENTAKSIR	Aktif

**Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia** : 02/12/2024

# TNB Registration



*Dengan ini disahkan bahawa*

**CHEMVI LABORATORY SDN. BHD.  
NO 22A, JALAN SUNGAI JELUH 32/192  
NOUVELLE KEMUNING INDUSTRIAL PARK  
BUKIT RIMAU, SECTION 32, PETALING  
40460 , SHAH ALAM , SELANGOR**

*Telah berdaftar dengan Tenaga Nasional Berhad sebagai  
**Pembekal & Kontraktor Perkhidmatan**  
di bawah kategori yang tercatat dalam sijil ini*

\*\*\*\*\*

060101, 060102, 060103, 222703, 222704, 222708\*\*\*

\*\*\*\*\*

## BUTIR-BUTIR PENDAFTARAN

NO PENDAFTARAN TNB	:	3033510
NO PENDAFTARAN SYARIKAT	:	514202D
NO SIJIL KEMENTERIAN KEWANGAN	:	K60672945074008714
TEMPOH SAHLAKU SEHINGGA	:	07.12.2027
TARAF	:	BUKAN BUMIPUTERA
LAIN-LAIN PENDAFTARAN	:	

*Tarikh tempoh sahlaku pendaftaran ini adalah tertakluk kepada tempoh sahlaku Pendaftaran sijil-sijil Kementerian Kewangan(KK), Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB) dan sijil-sijil professional yang berkaitan.*

**Amir Mahmod bin Abdullah  
Ketua Pegawai Perolehan  
Bahagian Procurement & Supply Chain  
Tenaga Nasional Berhad**

**Tarikh kelulusan : 04.02.2025**

*Ini adalah cetakan komputer dan tidak memerlukan tandatangan.*

# Industrial Hygiene Tech 1 – Dr Shanmugam (I)

H 0299

  
**MALAYSIA**

**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994**  
**PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN**  
**(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA**  
**KESIHATAN) 2000**

Adalah disahkan bahawa

**SHANMUGAM A/L SUBERAMANIAM**  
**(K.P.: 700711-08-6283)**



telah didaftarkan dengan Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia

sebagai

**JURUTEKNIK HIGIEN I**

untuk

kerja-kerja pemantauan bahan kimia  
berbahaya kepada kesihatan

No. Rujukan Pendaftaran : JKKP HIE 127/171-3/1(163)

**Pendaftaran sah dari 30 Nov. 2010 sehingga 29 Nov. 2013\***

  
**(Dato' Ir. Dr. Johari Basri)**  
Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

Tarikh: 21.12.10

\*(sila lihat muka sebelah untuk tarikh pembaharuan sijil)

## Industrial Hygiene Tech 1 - Dr Shanmugam (II)

\* - Pembaharuan Pendaftaran:

1. <b>TEMPOH SAH PENDAFTARAN</b> 8-11-2013... hingga 7-11-2016  TIMBALAN KETUA PENGARAH (OPERASI) Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia	2. <b>TEMPOH SAH PENDAFTARAN</b> 14-11-2016... hingga 13-11-2019  TIMBALAN KETUA PENGARAH (KESELAMATAN PENERUAAN) Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia	3.
4.	5.	6.

Kelulusan ini tertakluk kepada syarat-syarat berikut:

1. Kelulusan ini hanya sah selama TIGA (3) tahun.
2. Tuan boleh memohon dengan rasmi untuk membatuasi siji tiga (3) bulan sebelum tamat tempoh, dengan menyertakan kembali siji asal.
3. Kelulusan ini boleh ditangkahi oleh Jabatan ini pada bila-bila masa atas budi bicara Ketua Pengarah, Jabatan Keselamatan dan Kesihatan Pekerjaan, Malaysia.

Tarikh siji diambil:
No. Bilangan:
Peribadi:
No. Pendaftaran Buku Rekod:



# Industrial Hygiene Tech 1 – Dr Shanmugam (III)



## JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN KEMENTERIAN SUMBER MANUSIA

AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994  
PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN)  
2000

### SLIP PERAKUAN PENDAFTARAN

No. Pendaftaran : HQ/10/JHI/00/163 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Juruteknik Higien 1 untuk kerja-kerja pemantauan bahan kimia berbahaya kepada kesihatan.



Nama : SHANMUGAM A/L SUBERAMANIAM

No. KP/Pasport : 700711086283

Tarikh Lahir : 11/07/1970

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	30/11/2010	29/11/2013
Pembaharuan	28/12/2022	27/12/2025



Verifikasi Dokumen

MOHD ANUAR BIN EMBI  
KETUA PENGARAH  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

Tarikh : 28/12/2022



# Industrial Hygiene Tech 1 - Ms Logesh Perumall



**JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
KEMENTERIAN SUMBER MANUSIA**

**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994  
PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN)  
2000**

**SLIP PERAKUAN PENDAFTARAN**

**No. Pendaftaran :** HQ/19/JHI/00/00041 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Juruteknik Higien 1 untuk kerja-kerja pemantauan bahan kimia berbahaya kepada kesihatan.



**Nama :** LOGESH A/P PERUMALL

**No. KP/Pasport :** 850324105652

**Tarikh Lahir :** 24/03/1985

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	27/05/2019	26/05/2022
Pembaharuan	4/11/2022	3/11/2025



Verifikasi Dokumen

**Ir. HAJI MOHD HATTA BIN ZAKARIA**  
Timbalan Ketua Pengarah  
(Kesihatan Pekerjaan)  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

**Tarikh :** 4/11/2022



# Industrial Hygiene Tech 1 – Mr Ruhan Shanmugam

  
**JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN**  
**KEMENTERIAN SUMBER MANUSIA**  
**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994**  
**PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN**  
(PENGGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN)  
2000  
**SLIP PERAKUAN PENDAFTARAN**

**No. Pendaftaran :** HQ/25/JHI/00/00103 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Juruteknik Higien 1 di bawah peruntukan Peraturan-peraturan Keselamatan dan Kesihatan Pekerjaan (Penggunaan dan Standard Pendedahan Bahan Kimia Berbahaya kepada Kesihatan) 2000.



**Nama :** RUHAN SHANMUGAM  
**No. KP/Pasport :** 000806100845      **Tarikh Lahir :** 6/08/2000

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	20/01/2025	19/01/2028

  
Verifikasi Dokumen

  
**Ir. HAJI MOHD HATTA BIN ZAKARIA**  
**KETUA PENGARAH**  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia



**Tarikh :** 20/01/2025

## Industrial Hygiene Tech 2 – Dr Shanmugam (I)

H 0162



**MALAYSIA**

**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994**  
**PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN**  
**(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA**  
**KEPADA KESIHATAN) 2000**

Adalah disahkan bahawa

**SHANMUGAM A/L SUBERAMANIAM**  
(K.P.: 700711-08-6283)



telah didaftarkan dengan Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia

sebagai

**JURUTEKNIK HIGIEN II**

untuk

kerja-kerja pemeriksaan dan pengujian  
keatas kelengkapan kawalan kejuruteraan

No. Rujukan Pendaftaran : JKPP HIE 127/171-3/2 (60)

**Pendaftaran sah dari 30 Mei 2008 sehingga 29 Mei 2011\***



**(Dato' Ir. Dr. Johari Basri)**  
Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia



Tarikh: 24.6.08

\*(sila lihat muka sebelah untuk tarikh pembaharuan sijil)



## Industrial Hygiene Tech 2 - Dr Shanmugam (II)

\* - Pembaharuan Pendaftaran:

1. <b>TEMPOH SAH PENDAFTARAN</b> 30/5/2011 hingga 29/5/2014  <b>Ketua Pengarah Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia.</b>	2. <b>TEMPOH SAH PENDAFTARAN</b> 9-6-2014 hingga 8-6-2017  <b>TIMBALAN KETUA PENGARAH (OPERASI) Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia</b>	3.
4.	5.	6.

Kelulusan ini tertakluk kepada syarat-syarat berikut:

1. Kelulusan ini hanya sah selama TIGA (3) tahun.
2. Tuan boleh memohon dengan rasmi untuk membaharui sijil tiga (3) bulan sebelum tamat tempoh, dengan menyertakan kembali sijil asal.
3. Kelulusan ini boleh ditarik balik oleh Jabatan ini pada bila-bila masa atas budi bicara Ketua Pengarah, Jabatan Keselamatan dan Kesihatan Pekerjaan, Malaysia.

Tarikh Pendaftaran Terdahulu : 08 Disember 2004

Tanah sijil diambil:

No. Bilangan:

Perkara:

No. Pendaftaran Buku Rekod:



## Industrial Hygiene Tech 2 - (III)



### JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN KEMENTERIAN SUMBER MANUSIA

AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994  
PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN) 2000

#### SLIP PERAKUAN PENDAFTARAN

No. Pendaftaran : HQ/08/JHII/00/60 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Juruteknik Higien 2 untuk kerja-kerja pemeriksaan dan pengujian keatas kelengkapan kawalan kejuruteraan.



Nama : SHANMUGAM A/L SUBERAMANIAM

No. KP/Pasport : 700711086283

Tarikh Lahir : 11/07/1970

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	30/05/2008	29/05/2011
Pembaharuan	5/10/2023	4/10/2026



Verifikasi Dokumen

Ir. HAJI MOHD HATTA BIN ZAKARIA  
KETUA PENGARAH  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

Tarikh : 5/10/2023



# CHRA Assessor – Dr Shanmugam (I)

P 0234



MALAYSIA

AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994  
PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA  
KEPADA KESIHATAN) 2000

Adalah disahkan bahawa

SHANMUGAM A/L SUBERAMANIAM  
(K.P.: 700711-08-6283)



telah didaftarkan dengan Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia

sebagai

**PENGAPIT**

No. Rujukan Pendaftaran : JKKP HIE 127/171-2(280)

Pendaftaran sah dari 02 Sept. 2010 sehingga 01 Sept. 2013\*

Tarikh:

14.10.10

(Dato Ir. Dr. Johari Basri)

Ketua Pengarah

Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

\*(sila lihat muka sebelah untuk tarikh pembaharuan sijil)

## CHRA Assessor – Dr Shanmugam (II)



### JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN KEMENTERIAN SUMBER MANUSIA

**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994**  
**PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN**  
(PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN) 2000

#### SLIP PERAKUAN PENDAFTARAN

**No. Pendaftaran : HQ/10/ASS/00/280** Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Pengapit di bawah peruntukan Peraturan-Peraturan Keselamatan dan Kesihatan Pekerjaan (Penggunaan dan Standard Bahan Kimia Berbahaya kepada Kesihatan) 2000.



**Nama** : SHANMUGAM A/L SUBERAMANIAM

**No. KP/Pasport** : 700711086283

**Tarikh Lahir** : 11/07/1970

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	2/09/2010	1/09/2013
Pembaharuan	4/09/2022	3/09/2025



Verifikasi Dokumen

Ir. HAJI MOHD HATTA BIN ZAKARIA  
Timbalan Ketua Pengarah  
(Kesihatan Pekerjaan)  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

Tarikh : 4/09/2022





# Indoor Air Quality Assessor – Dr Shanmugam (I)

IAQ 0032



**AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994**  
**TATAAMALAN INDUSTRI KUALITI UDARA DALAMAN**  
**2010**

Adalah disahkan bahawa

**SHANMUGAM A/L SUBERAMANIAM**  
**(K.P.: 700711-08-6283 )**



telah didaftarkan dengan Ketua Pengarah  
Jabatan Keselamatan dan Kesihatan Pekerjaan Malaysia

sebagai

**PENGAPIT KUALITI UDARA DALAMAN**

No. Rujukan Pendaftaran : JKPP HIE 127/171-4 ( 24 )

Pendaftaran sah dari

**7 FEBRUARI 2014 sehingga 6 FEBRUARI 2017\***



**(Ir. Mohtar Bin Musri)**  
Timbalan Ketua Pengarah (Operasi)  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

\*{sila lihat muka sebelah untuk tarikh pembaharuan sijil}

## Indoor Air Quality Assessor - Dr Shanmugam (II)



### JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN KEMENTERIAN SUMBER MANUSIA

#### AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994 TATAAMALAN INDUSTRI KUALITI UDARA DALAMAN 2010

#### SLIP PERAKUAN PENDAFTARAN

**No. Pendaftaran :** HQ/14/IAQ/00/24 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Penaksir Kualiti Udara Dalam di bawah peruntukan Akta Keselamatan dan Kesihatan Pekerjaan 1994 (Tataamalan Industri Kualiti Udara Dalam 2010).



**Nama :** SHANMUGAM A/L SUBERAMANIAM

**No. KP/Pasport :** 700711086283

**Tarikh Lahir :** 11/07/1970

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	7/02/2014	6/02/2017
Pembaharuan	15/03/2023	14/03/2026



Verifikasi Dokumen

**MOHD ANUAR BIN EMBI**  
**KETUA PENGARAH**  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

**Tarikh :** 15/03/2023





# Noise Risk Assessor – Dr Shanmugam (I)

NO 180



**MALAYSIA**

**AKTA KILANG DAN JENTERA 1967**  
**PERATURAN-PERATURAN KILANG DAN JENTERA**  
**(PENDEDAHAN BISING) 1989**

## **ORANG YANG KOMPETEN**

Adalah dengan ini di dapati bahawa

**SHANMUGAM A/L SUBERAMANIAM**  
**( 700711-08-6283 )**



berkelayakan serta berkebolehan dan diluluskan sebagai  
**ORANG YANG KOMPETEN** dibawah Peraturan-Peraturan  
Kilang dan Jentera (Pendedahan Bising) 1989

No. Rujukan Pendaftaran : JKPP HIE 127/5/3-1(NO147)

**Pendaftaran sah**  
**dari**  
**10 JULAI 2015 sehingga 9 JULAI 2018\***

**( Ir. Mohtar Bin Musri )**

**Ketua Pengarah**

**Jabatan Keselamatan dan Kesihatan Pekerjaan**

**Malaysia**



\*[sila lihat muka sebelah untuk tarikh pembaharuan sijil]

## Noise Risk Assessor – Dr Shanmugam (II)



**JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
KEMENTERIAN SUMBER MANUSIA**

**PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENDEDAHAN BISING) 2019**

**SLIP PERAKUAN PENDAFTARAN**

**No. Pendaftaran : HQ/15/PEB/00/147** Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Penaksir Risiko Bising di bawah peruntukan Seksyen 31E, Akta Keselamatan dan Kesihatan Pekerjaan 1994 dan Peraturan-peraturan Keselamatan dan Kesihatan Pekerjaan (Pendedahan Bising) 2019.



**Nama** : SHANMUGAM A/L SUBERAMANIAM

**No. KP/Pasport** : 700711086283 **Tarikh Lahir** : 11/07/1970

TEMPOH SAH		
Jenis	Dari	Hingga
Pembaharuan	16/06/2025	15/06/2028

**Ir. HAJI MOHD HATTA BIN ZAKARIA**  
**KETUA PENGARAH**  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

**Tarikh** : 16/06/2025



# Noise Risk Assessor – Logesh a/p Perumall (I)

NO 188



**MALAYSIA**

**AKTA KILANG DAN JENTERA 1967**  
**PERATURAN-PERATURAN KILANG DAN JENTERA**  
**(PENDEDAHAN BISING) 1989**

## **ORANG YANG KOMPETEN**

Adalah dengan ini di dapati bahawa

**LOGESH A/P PERUMALL**  
**( 850324-10-5652 )**



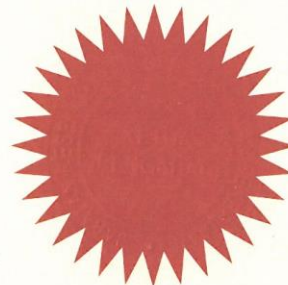
berkelayakan serta berkebolehan dan diluluskan sebagai  
**ORANG YANG KOMPETEN** dibawah Peraturan-Peraturan  
Kilang dan Jentera (Pendedahan Bising) 1989

No. Rujukan Pendaftaran : JKKP HIE 127/5/3-1( NO 153 )

**Pendaftaran sah dari**

**29 DISEMBER 2015 sehingga 28 DISEMBER 2018**

**( Ir. MOHTAR BIN MUSRI )**  
**Ketua Pengarah**  
**Jabatan Keselamatan dan Kesihatan Pekerjaan**  
**Malaysia**



## Noise Risk Assessor – Logesh a/p Perumall (II)



**JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
KEMENTERIAN SUMBER MANUSIA**

PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN  
(PENDEDAHAN BISING) 2019

**SLIP PERAKUAN PENDAFTARAN**

**No. Pendaftaran :** HQ/15/PEB/00/153 Ini adalah memperakui bahawa pemegang slip perakuan ini telah didaftarkan sebagai Penaksir Risiko Bising di bawah peruntukan Peraturan-peraturan Keselamatan dan Kesihatan Pekerjaan (Pendedahan Bising) 2019.



**Nama :** LOGESH A/P PERUMALL

**No. KP/Pasport :** 850324105652 **Tarikh Lahir :** 24/03/1985

TEMPOH SAH		
Jenis	Dari	Hingga
Pendaftaran	29/12/2015	28/12/2018
Pembaharuan	4/06/2022	3/06/2025



Verifikasi Dokumen

**Ir. HAJI MOHD HATTA BIN ZAKARIA**  
Timbalan Ketua Pengarah  
(Kesihatan Pekerjaan)  
Jabatan Keselamatan dan Kesihatan Pekerjaan  
Malaysia

**Tarikh :** 4/06/2022






# Asbestos (BOHS) – Dr Shanmugam

**British Occupational Hygiene Society**  
**Faculty of Occupational Hygiene**

***Shanmugam Suberamaniam***

has satisfactorily completed the examination process and has duly been  
awarded the

***Proficiency Certificate***  
***in***  
***P406 - Supervision and Management***  
***of the Safe Removal and***  
***Disposal of Asbestos***

  
Chief Examiner



December 2010  
Certificate No. 180111/004

*Working for a healthier workplace*



# Asbestos (SEI) – Dr Shanmugam



# Occupational Health Doctor – Dr Shalini a/p Shanmugam

1 of 1

BORANG 15

AKTA PERUBATAN 1971  
(Seksyen 20)

No. 4169 / 2025

PERATURAN-PERATURAN PERUBATAN, 2017  
(Peraturan 28)

## PERAKUAN AMALAN TAHUNAN

MAKA ADALAH DENGAN INI DIPERAKUI bahawa

**SHALINI A/P SHANMUGAM**  
**980522-10-5480**

yang tinggal di

**NO.20A JALAN SUNGAI MERBAU 32/76A AMVERTON PARK**  
**BUKIT KEMUNING GOLF AND COUNTRY RESORT**  
**40460 SHAH ALAM**  
**SELANGOR**

iaitu seorang pengamal perubatan berdaftar penuh, adalah dengan ini diberikuasa untuk menjalankan amalan sebagai seorang pengamal perubatan (tertakluk kepada sekatan-sekatan dan syarat-syarat jika ada, yang dinyatakan dalam perakuan pendaftaran penuh) selama tempoh bermula dari 01/01/2025 berakhir pada 31/12/2025, di

**HOSPITAL TENGKU AMPUAN RAHIMAH**  
**JALAN LANGAT**  
**41200 KLANG**  
**SELANGOR**

iaitu tempat utama amalan, dan di :

**SEMUA FASILITI DIBAWAH KEMENTERIAN KESIHATAN MALAYSIA**

iaitu tempat/tempat-tempat amalan yang lain



.....  
(DATUK DR. MUHAMMAD RADZI BIN ABU  
HASSAN)

Pendaftar Pengamal Perubatan


Tarikh : 17/04/2024

\*Bayaran sebanyak RM 100.00 dibayar melalui resit No : R24015476  
bertarikh : 10/04/2024

# Occupational Health Doctor – Dr Shalini a/p Shanmugam

## PROFIL ORANG YANG KOMPETEN

MAKLUMAT AM	
Nama	SHALINI A/P SHANMUGAM
Jantina	PEREMPUAN
Bangsa	INDIA
Warganegara	MALAYSIA
Negeri Kelahiran	SELANGOR



SENARAI KOMPETENSI				
Dibawah adalah senarai kompetensi yang dimiliki				
BIL.	NO. DAFTAR	TARIKH LULUS	TARIKH TAMAT	JENIS KOMPETENSI
1	HQ/24/DOC/00/01447	22/07/2024	21/07/2027	DOKTOR KESIHATAN PEKERJAAN



# Approval Letter for doing Chemical Analysis (FOOD)

	<p>BAHAGIAN KAWALAN MUTU MAKANAN (FOOD QUALITY CONTROL DIVISION) KEMENTERIAN KESIHATAN MALAYSIA (MINISTRY OF HEALTH MALAYSIA) KOMPLEKS PEJABAT-PEJABAT KESIHATAN TINGKAT 3, BLOK B, JALAN CENDERASARI 50590 KUALA LUMPUR</p>	<p>Telefon: 03 - 2694 6601 No. Fax 03 - 2694 6517 <a href="http://dph.gov.my/division/fqc/index.htm">http://dph.gov.my/division/fqc/index.htm</a> Kawat : MINHEALTH, KUALA LUMPUR Homepages: <a href="http://dph.gov.my/fqc">http://dph.gov.my/fqc</a> Email: <a href="mailto:fqc-division@dph.gov.my">fqc-division@dph.gov.my</a></p>
<p>Ruj. Tuan : Ruj. Kami : <b>QJdlm.KKM-163/L/14</b> Tarikh : <b>13 Jun 2003</b></p>		
	<p>Pengurus Chemvi Laboratory Sdn Bhd No. 5A-B, Lorong Temenggung 15A Taman Evergreen, 41200 Klang Selangor  (u.p. : Dr. Shanmugam)  Tuan,</p>	
<p><b>RE : REGISTRATION FOR DOING CHEMICAL ANALYSIS FOR EXPORT PURPOSE</b></p>		
<p>Adalah saya dengan segala hormatnya merujuk perkara di atas.</p>		
<p>2. Sukacita dimaklumkan, Bahagian Kawalan Mutu Makanan (BKMM), Kementerian Kesihatan Malaysia (KKM) hanya akan mengiktiraf makmal swasta yang telah memperolehi akreditasi dari Jabatan Standard Malaysia (JSM) di bawah Skim Akreditasi Makmal Malaysia (SMM). Skop analisis yang diiktiraf bagi tujuan pengeluaran Sijil Kesihatan oleh KKM hanya tertakluk kepada analisis makanan yang telah mendapat akreditasi pihak Jabatan Standard Malaysia.</p>		
<p>3. Justeru itu, pengiktirafan adalah diberikan kepada makmal tuan sebagai makmal yang berdaftar dengan KKM berdasarkan skop akreditasi bagi analisis makanan yang tercatat dalam Sijil Akreditasi No : SMM 213(sah sehingga 27 Julai 2003) yang telah diperolehi oleh pihak tuan dari pihak Jabatan Standard Malaysia. Pihak tuan perlu memaklumkan ke Bahagian ini dan menyertakan bersama salinan Sijil Akreditasi untuk setiap pembaharuan sijil.</p>		
<p>4. Namun demikian, pihak tuan diingatkan bahawa pengiktirafan oleh Kementerian Kesihatan Malaysia adalah tertakluk kepada makmal tuan dikekalkan sebagai makmal yang diakreditasi oleh Jabatan Standard Malaysia. Sebarang penarikan balik akreditasi oleh Jabatan Standard Malaysia juga akan menyebabkan pengiktirafan oleh Kementerian Kesihatan Malaysia terbatal secara automatik.</p>		
<p>5. Sebagai makmal yang diiktiraf oleh KKM, pihak KKM adalah berhak untuk menjalankan pemeriksaan ke makmal tuan pada masa tertentu. Pihak BKMM berharap agar pihak tuan dapat menggunakan peluang yang diberi ini sebaik mungkin dan menjalankan tugas dengan penuh tanggungjawab bagi memastikan kecukupan makmal tuan sentiasa berada pada tahap yang tinggi dan keputusan analisis tidak dipertikaikan.</p>		
<p>Sekian terima kasih.</p>		
<p><b>"BERKHIDMAT UNTUK NEGARA"</b></p>		
<p>Saya yang menurut perintah,</p>		
<p> <b>(CHIN CHEOW KEAT)</b> b.p. Pengarah Bahagian Kawalan Mutu Makanan, Jabatan Kesihatan Awam, Kementerian Kesihatan Malaysia.</p>		
<p>s.k. Jabatan Kesihatan Negeri } skop analisis adalah (u.p. : Pegawai Teknologi Makanan Negeri) } seperti dilampirkan</p>		
<p><small>CCK/ Nak-c/ norziah/nak/surat/syarakat/2003/its-doc</small></p>		



# Food Testing – Satish Raj a/p Krishnan

No. Siri : A001096



**BORANG C**  
**[Subperaturan 4(2)]**

**AKTA JURUANALISIS MAKANAN 2011**  
**PERATURAN-PERATURAN JURUANALISIS MAKANAN 2013**

**PERAKUAN PENDAFTARAN**

No. Perakuan Pendaftaran: **MJMM001096**

DENGAN INI DIPERAKUI BAHAWA **SATISH RAJ A/L KRISHNAN** yang beralamat **NO. 19, JALAN BSC 3B/7, BANDAR SERI COALFIELDS, 47000 SUNGAI BULOH, SELANGOR** memegang kelayakan **MASTER BIOTECHNOLOGY** pada hari ini didaftarkan sebagai seorang juruanalisis makanan di bawah seksyen 18 Akta Juruanalisis Makanan 2011 tertakluk kepada sekatan dan syarat yang ditetapkan oleh Majlis.

Bidang analisis makanan: **MIKROBIOLOGI**

Tarikh: **13 SEPTEMBER 2021**

  
.....  
**Tan Sri Dato' Seri Dr. Noor Hisham bin Abdullah**  
Pengerusi  
**MAJLIS JURUANALISIS MAKANAN MALAYSIA**



# APPROVAL OF SERVICE SUPPLIERS

Certificate no: KLR 1900035  
Page 1 of 1



## Approval of Service Suppliers

Office: Kuala Lumpur  
Date of issue: 29 January 2019  
This is to certify that: ChemVI Laboratory Sdn. Bhd.

No 22A, Jalan Sungai Jeluh 32/192, Nouvelle Kemuning Industrial Park,  
Bukit Rimau, Sec 32, 40460 Shah Alam, Selangor Darul Ehsan. (hereinafter referred to as "Supplier")

Tel: +603 55253505/3506 Fax: +603 55253508/3509 Email: info@chemvi.com.my/shan\_chemvi@yahoo.com  
having been assessed hereby receives approval in accordance with the requirements of Lloyd's Register Procedures for Approval of Service Suppliers as Supplier from the address(es) listed above for the provision of

Visual/sampling checks and testing for hazardous materials, such as asbestos, PCBs, TBTs, CFCs and PFOS onboard ships, including advice on numbers and locations of samples, and preparation of reports on the quantities, locations and estimates of these materials

In Compliance with the Resolution MEPC.269(68)-2015 Guidelines for the Development of the Inventory of Hazardous Materials and Hong Kong International Convention For The Safe Environmentally Friendly and Sound Recycling of Ships, 2009.

This approval is conditional upon the Supplier maintaining the documented scheme as audited by any member of the Lloyd's Register Group and hereby approved; and notifying Lloyd's Register in writing of any change to that scheme including any change in personnel, equipment or procedures.

This certificate is issued to the Supplier and, subject to the Supplier complying with the necessary conditions, is valid to the date referred to below.  
This certificate is valid until 28 January 2022



Ong Tan Wah  
Surveyor to Lloyd's Register of Shipping (Malaysia) Bhd  
A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



## APPROVAL OF SERVICE SUPPLIERS

Certificate No:  
**AOSS0000EEX**  
Revision No:  
**2**

This is to certify that

**Chemvi Laboratory Sdn. Bhd.**

**Shah Alam, Malaysia**

is granted acceptance for

**Preparation of inventory of hazardous materials , in accordance with Class Programme  
DNV-CP-0638.**

This service supplier certificate will be accepted for use with all rule sets published by DNV.

**See the following page(s) for details regarding application.**

This Certificate is valid from **2024-08-19** to (inclusive) **2027-09-13**.

This Certificate is issued on **2024-08-19**.



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signatures

**Mahmood, Khalid**  
**Surveyor**

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: AOSS 101

Revision: 2022-12

www.dnv.com

Page 1 of 2



Certificate No: **AOSS0000EEX**  
Revision No: **2**

**Application:**  
**IHM laboratory and testing services as required by**

- SR/CONF/45: Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009
- IMO Guidelines for the Development of the Inventory of Hazardous Materials
- Regulation (EU) No 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and Amending Regulation (EC) No 1013/2006 and Directive 2009/16/EC
- EMSA Guidance on the Inventory of Hazardous Materials

Before expiry date of the certificate a renewal audit must be conducted for the extension of the certificate.

**Remarks:**  
Before expiry date of the Certificate a renewal audit is required.

# BASIC OFFSHORE SAFETY & EMERGENCY TRAINING (B.O.S.E.T)



Certificate No.: M-B/4205/46379

This Certificate Verifies That On

**JANUARY 02 TO 04, 2014**

**SHANMUGAM A/L SUBERAMANIAM**

**700711-08-6283**

Successfully Completed

**Basic Offshore Safety and Emergency Training  
B.O.S.E.T.**

*Including*

*Re-breather, Helicopter Underwater Escape Training, Offshore Safety  
Induction, Sea Survival, Basic Fire Fighting, First Aid and Boat  
Transfer & Swing Rope*

Conducted By

**CONSIST**

Survival • Safety • Skills  
Training Centre  
Kuala Lumpur  
Malaysia

CONSIST Course Instructor  
**RAMANI HIPNIE**

CONSIST Director  
**Ar. MIOR ZAWARI HASSAN**

*Certificate Of Training*



Expiry Date:  
January 01, 2018

# Train the Trainer – Dr Shanmugam



BTT 2287-O

Adalah dengan ini disahkan bahawa

**DR SHANMUGAM SUBERAMANIAM**  
No. K.P. : 700711-08-6283

telah tamat dan lulus dengan jayanya dalam semua  
penilaian yang telah ditetapkan untuk program

**Train the Trainer**

pada

**7 - 11 Julai 2014**

**TAN SRI DATUK SERI LEE LAM THYE**  
Pengerusi  
NIOSH

**Ir HAJI ROSLI BIN HUSSIN**  
Pengarah Eksekutif  
NIOSH



NO SIRI
P 1906



A member of UEM Group

**EDGENTA PROPEL BERHAD**  
(171667-P)

**SIJIL PENDAFTARAN SYARIKAT**

Tempoh Sah Laku : Dari 18 Julai 2016 sehingga 17 Julai 2021

No. Rujukan Pendaftaran : 2378

Bahawa dengan ini diperakui syarikat :

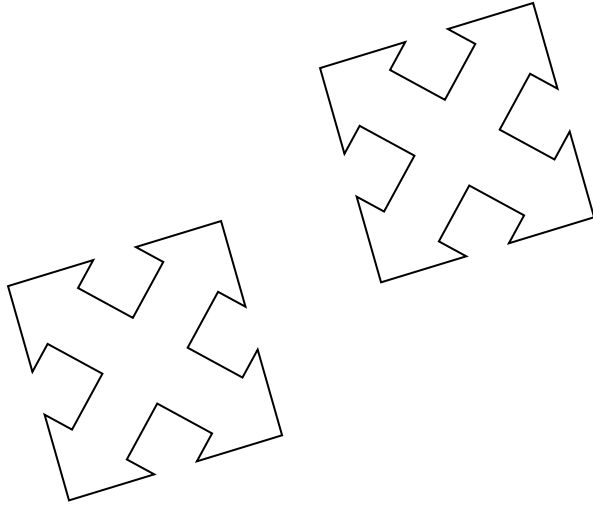
**CHEMVI LABORATORY SDN BHD (514202-D)**  
No. 22A, Jalan Sungai Jeluh 32/192  
Nouvelle Kemuning Industrial Park  
Bukit Rimau, Seksyen 32  
40460 Shah Alam  
Selangor

telah berdaftar dengan EDGENTA PROPEL BERHAD sebagai Kontraktor  
/Pembekal / Panel-Workshop / Perunding (Consultant)

Kelulusan ini adalah tertakluk kepada syarat - syarat seperti dinyatakan di  
belakang sijil ini.

A handwritten signature in black ink, appearing to read 'WAN AZMAN WAN SALLEH'.

**Ir. WAN AZMAN WAN SALLEH**  
**PENGARAH URUSAN**



---

# LOCATION

