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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>  	<b>CENTRE FOR RESEARCH SERVICES</b> Level 2, Research Management & Innovation Complex University of Malaya 50603 WP Kuala Lumpur , 50603, WILAYAH PERSEKUTUAN KUALA LUMPUR MALAYSIA
<b>ACCREDITED SINCE :</b>	24 JULY 2025
<b>FIELD(S) OF TESTING:</b>	NUCLEIC ACID
<b>SITE:</b>	
<b>1 . SITE LABORATORY(HQ) :</b>	<b>INFRA ANALYSIS LABORATORY RESEARCH SERVICES</b> DIVISION INSTITUTE OF RESEARCH MANAGEMENT & SERVICES, LEVEL 3, RESEARCH MANAGEMENT & INNOVATION COMPLEX UNIVERSITI MALAYA, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	MECHANICAL
<b>2 . SITE LABORATORY(HQ) :</b>	<b>ALGAE RESEARCH LABORATORY INSTITUTE OF OCEAN AND</b> <b>EARTH SCIENCES (IOES),</b> B207, BLOCK B, LEVEL 2, ADVANCE STUDIES COMPLEX UNIVERSITI MALAYA, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL
<b>3 . SITE LABORATORY(HQ) :</b>	<b>ANTIVIRAL RESEARCH LABORATORY (AVL) TROPICAL</b> <b>INFECTIOUS DISEASES RESEARCH &amp; EDUCATION CENTRE</b> <b>(TIDREC),</b> LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL
<b>4 . SITE LABORATORY(HQ) :</b>	<b>VACCINE RESEARCH LABORATORY (VRL) TROPICAL</b> <b>INFECTIOUS DISEASES RESEARCH &amp; EDUCATION CENTRE</b> <b>(TIDREC) ,</b> LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL
<b>5 . SITE LABORATORY(HQ) :</b>	<b>SURVEILLANCE LABORATORY (SL 1) TROPICAL INFECTIOUS</b> <b>DISEASES RESEARCH &amp; EDUCATION CENTRE (TIDREC),</b> LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL
<b>6 . SITE LABORATORY(HQ) :</b>	<b>SURVEILLANCE LABORATORY (SL 2) TROPICAL INFECTIOUS</b> <b>DISEASES RESEARCH &amp; EDUCATION CENTRE (TIDREC),</b> LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL
<b>7 . SITE LABORATORY(HQ) :</b>	<b>PV SOLAR ENERGY INVERTER TESTING LABORATORY UM</b> <b>POWER ENERGY DEDICATED ADVANCED CENTRE</b>

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	(UMPEDAC), LEVEL G, WISMA R&D, UNIVERSITI MALAYA JALAN PANTAI BAHARU, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	ELECTRICAL
<b>8 . SITE LABORATORY(HQ) :</b>	CATEGORY I
<b>FIELD(S) OF TESTING :</b>	ELECTRICAL
<b>9 . SITE LABORATORY(HQ) :</b>	OPTICAL CALIBRATION FACILITY PHOTONICS RESEARCH CENTRE (PRC), BLOCK A, DEPT. OF PHYSICS FACULTY OF SCIENCE UNIVERSITI MALAY, MALAYSIA
<b>FIELD(S) OF CALIBRATION:</b>	OPTICAL & PHOTOMETRIC

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).

<b>CENTRAL LOCATION:</b>	CENTRE FOR RESEARCH SERVICES Level 2, Research Management & Innovation Complex University of Malaya 50603 WP Kuala Lumpur , 50603, Wilayah Persekutuan Kuala Lumpur
<b>FIELD(S) OF TESTING :</b>	NUCLEIC ACID,

**SCOPE OF TESTING : NUCLEIC ACID**

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Blood (serum/plasma) Or Cell Culture Materials, Materials, Synthetic Rna	Detection of dengue virus	In-house method UM/SL/TM-1 based on dengue virus detection and serotyping using DengueDetect® primers Multiplex RT-PCR  In-house method UM/SL/TM-4 based on dengue virus detection using RealTime RT-PCR.
Oral And Respiratory Specimens Eg. Nasopharyngeal Swab (nps), Oropharyngeal Swab (ops), Nasal Swab (ns), Sputum, Deep Throat Saliva Or cell Culture Materials	Detection of SARS-Coronavirus-2	UM/SL/TM-5 based on SARS-CoV-2 detection using Real-Time RT-PCR

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<b>SITE LOCATION (HQ)</b>	1. INFRA ANALYSIS LABORATORY RESEARCH SERVICES DIVISION INSTITUTE OF RESEARCH MANAGEMENT & SERVICES, LEVEL 3, RESEARCH MANAGEMENT & INNOVATION COMPLEX UNIVERSITI MALAYA, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	MECHANICAL

### SCOPE OF TESTING : MECHANICAL

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
<b>Physical</b> Catalysts And Catalyst Carriers	- Surface Area (BET)/ Mesopore (2nm-50nm)	ASTM D3663-20

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<b>SITE LOCATION (HQ)</b>	2. ALGAE RESEARCH LABORATORY INSTITUTE OF OCEAN AND EARTH SCIENCES (IOES), B207, BLOCK B, LEVEL 2, ADVANCE STUDIES COMPLEX UNIVERSITI MALAYA, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL

**SCOPE OF TESTING : BIOLOGICAL**

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Microalgae Culture Originating From Various Sources Including Fresh Water, Marine Water, Sediment, Soil, Epiphytic On Substrates, Sludge	Microalgae taxonomic identification	UM/ARL/TM-1 based on i) APHA (2017) Part 10900 Identification of Aquatic Organisms: C. Key for Identification of Freshwater Algae Common in Water Supplies and Polluted Waters.  ii) AlgaeBase Website ( <a href="http://www.algaebase.org">http://www.algaebase.org</a> )

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<b>SITE LOCATION (HQ)</b>	3. ANTIVIRAL RESEARCH LABORATORY (AVL) TROPICAL INFECTIOUS DISEASES RESEARCH & EDUCATION CENTRE (TIDREC), LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL

### SCOPE OF TESTING : BIOLOGICAL

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Chemical Disinfectants And Antiseptics	Virus inactivation assay (Log10 reduction)	UM/AVL/TM-1 based on BS EN 14476:2013+A2:2019

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<b>SITE LOCATION (HQ)</b>	4. VACCINE RESEARCH LABORATORY (VRL) TROPICAL INFECTIOUS DISEASES RESEARCH & EDUCATION CENTRE (TIDREC) , LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL

### SCOPE OF TESTING : BIOLOGICAL

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Chemical Disinfectants/ Antiseptics And Antimicrobial Equipment	Antimicrobial assay/ Percent reduction (%)	UM/VRL/TM-1 based on ASTM E2315- 16

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<b>SITE LOCATION (HQ)</b>	5. SURVEILLANCE LABORATORY (SL 1) TROPICAL INFECTIOUS DISEASES RESEARCH & EDUCATION CENTRE (TIDREC), LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL

**SCOPE OF TESTING : BIOLOGICAL**

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Blood (serum/plasma)	Detection of dengue antibodies and antigen	UM/SL/TM-2 based on Dengue NS1, IgM and IgG ELISA  UM/SL/TM-3 based on Dengue NS1Ag and IgM+IgG Ab fluorescence immunoassay (FIA) Rapid Test



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<b>SITE LOCATION (HQ)</b>	6. SURVEILLANCE LABORATORY (SL 2) TROPICAL INFECTIOUS DISEASES RESEARCH & EDUCATION CENTRE (TIDREC), LEVEL 2, HIGH IMPACT RESEARCH (HIR) BUILDING, UNIVERSITI MALAYA,, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	BIOLOGICAL

**SCOPE OF TESTING : BIOLOGICAL**

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Blood (serum/plasma)	Detection of dengue antibodies and antigen	UM/SL/TM-2 based on Dengue NS1, IgM and IgG ELISA  UM/SL/TM-3 based on Dengue NS1Ag and IgM+IgG Ab fluorescence immunoassay (FIA) Rapid Test

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<b>SITE LOCATION (HQ)</b>	7. PV SOLAR ENERGY INVERTER TESTING LABORATORY UM POWER ENERGY DEDICATED ADVANCED CENTRE (UMPEDAC), LEVEL G, WISMA R&D, UNIVERSITI MALAYA JALAN PANTAI BAHARU, MALAYSIA
<b>FIELD(S) OF TESTING :</b>	ELECTRICAL

### SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Photovoltaic Inverter</b> 100 W To 10 Kw	1) Power factor 2) Current harmonics 3) Direct current injection 4) Under and over voltage 5) Under and over frequency 6) Response to utility recovery	IEC 61727:2004
	Voltage flicker	IEC 61000-3-3:2013
	Anti-islanding	IEC 62116:2014

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<b>SITE LOCATION (HQ)</b>	8. CATEGORY I
<b>FIELD(S) OF TESTING :</b>	ELECTRICAL

### SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Photovoltaic Inverter</b> 10 Kw To 10 Mw	1) Power factor 2) Current harmonics 3) Direct current injection 4) Voltage fluctuation 5) Anti-islanding	IEC 61727:2004 Distribution Code for Peninsular Malaysia, Sabah, and F.T Labuan (Amendments) 2017
	Voltage flicker	IEC 61000-3-11:2017 Distribution Code for Peninsular Malaysia, Sabah, and F.T Labuan (Amendments) 2017

<b>SITE LOCATION (HQ)</b>	1. OPTICAL CALIBRATION FACILITY PHOTONICS RESEARCH CENTRE (PRC) BLOCK A, DEPT. OF PHYSICS FACULTY OF SCIENCE UNIVERSITI MALAY, MALAYSIA
<b>FIELD(S) OF CALIBRATION :</b>	OPTICAL & PHOTOMETRIC

### SCOPE OF CALIBRATION : OPTICAL & PHOTOMETRIC

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
<b>Optical Time Domain Reflectometers (otdrs) (single Mode Fibre)</b> Length Scale	5 km	0.23 m	Measured by comparison to single mode fibre physical standard. Wavelength: 1310 nm and 1550 nm UM/OCF/TM-1: Calibration Method for Calibration of Optical-Time Domain Reflectometer (OTDR) based on IEC 61746 -1:2009

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	10 km	0.38 m	Measured by comparison to single mode fibre physical standard. Wavelength: 1310 nm and 1550 nm UM/OCF/TM-1: Calibration Method for Calibration of Optical- Time Domain Reflectometer (OTDR) based on IEC 61746 -1:2009

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