


NO: SAMM 116

Page: 1 of 3

<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	Department of Mineral and Geoscience Malaysia, Ipoh Jalan Sultan Azlan Shah Peti Surat 1015 30820 Ipoh, Perak , 30820, PERAK MALAYSIA
	
<b>ACCREDITED SINCE :</b>	17 MARCH 2025
<b>FIELD(S) OF TESTING:</b>	CHEMICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

<b>CENTRAL LOCATION:</b>	Department of Mineral and Geoscience Malaysia, Ipoh Jalan Sultan Azlan Shah Peti Surat 1015 30820 Ipoh, Perak , 30820, Perak
<b>FIELD(S) OF TESTING :</b>	CHEMICAL,

**SCOPE OF TESTING : CHEMICAL**

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Limestone (including Dolomitic Limestone)	Calcium Oxide	In-house Method Ref. No: *WP/MPI/LME-01 Based on ASTM C25-06: Sec. 31
	Magnesium Oxide	In-house Method Ref. No: WP/MPI/LME-01 Based on ASTM C25-06: Sec. 31
	Acid Insoluble Matter (Including Silicon Dioxide)	In-house Method Ref. No: WP/MPI/LME-02 Based on ASTM C25-06: Sec. 8.0
	Silicon Dioxide	In-house Method Ref. No: WP/MPI/LME-03 Based on ASTM C25-06: Sec. 10

# Schedule

Issue date: 03 August 2023  
Valid Until: 15 August 2028



NO: SAMM 116

Page: 2 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Iron Oxide	In-house Method Ref. No: WP/MPI/LME-04 Based on ASTM C25-06: Sec. 14
Limestone Sample	XRF Analysis of Limestone <ul style="list-style-type: none"> <li>• Calcium Oxide</li> <li>• Magnesium Oxide</li> <li>• Silicon Dioxide</li> <li>• Aluminium Oxide</li> <li>• Iron Oxide</li> <li>• Manganese Oxide</li> <li>• Phosphorous Oxide</li> <li>• Potassium Oxide</li> <li>• Titanium Dioxide</li> </ul>	In-house Method WP/MPI/LME(XRF) (Based on ASTM C 1271-99 (Reapproved 2006))
Silica Sand	Loss on Ignition	In-house Method Ref. No: WP/MPI/SND-01 Based on MS 701: 1981 Appendix E, Sec. E7
	Silicon Dioxide	In-house Method Ref. No: WP/MPI/SND-02 Based on MS 701: 1981 Appendix E, Sec. E7
	Iron Oxide	In-house Method Ref. No: WP/MPI/SND-03 Based on ASTM C 146-94a (Reapproved 2004) Sec. 13
	Titanium Dioxide	In-house Method Ref. No: WP/MPI/SND-04 Based on MS 701: 1981 <sup>c</sup>
	Calcium Oxide	In-house Method Ref. No: WP/MPI/SND-05 rev. 1.0 Based on ASTM C146-94a [Reapproved 2004] Sec. 20-25
	Magnesium Oxide	In-house Method Ref. No: WP/MPI/SND-05 Based on ASTM C146-94a [Reapproved 2004] Sec. 20-25
	XRF Analysis of Silica Sand <ul style="list-style-type: none"> <li>• Silicon Dioxide</li> <li>• Titanium Dioxide</li> <li>• Iron Oxide</li> <li>• Calcium Oxide</li> <li>• Magnesium Oxide</li> </ul>	In-house Method TMM/XRF/SILICA (XRF)-01
Gold And Articles Of Gold Alloy	Gold	In-house Method Ref. No.: WP/MBA/GLD-01 rev. 1.0 Based on MS ISO 11146: 2006
<b>Water</b> - Ground Water - Mineral Water - Surface Water	pH	APHA 4500-H <sup>+</sup> B
	Sodium	APHA 3120B Instrumental Method (ICP-OES)
	Potassium	APHA 3120B Instrumental Method (ICP-OES)

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Issue date: 03 August 2023  
Valid Until: 15 August 2028



NO: SAMM 116

Page: 3 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Magnesium	APHA 3120B Instrumental Method (ICP-OES)
	Calcium	APHA 3120B Instrumental Method (ICP-OES)
	Chloride	APHA 4500 Cl <sup>-</sup> B
	Sulphate	APHA 4500 SO <sub>4</sub> <sup>2-</sup> E
	Total Solids	In-House Method Ref. No.: WP/BA/WTR-04 Based on APHA 2540 B
	Total Dissolved Solids	In-House Method Ref. No.: WP/BA/WTR-05 Based on APHA 2540 C
	Aluminium	APHA 3120 B, 22nd Ed. (2012)
	Cadmium	APHA 3120 B, 22nd Ed. (2012)
	Chromium	APHA 3120 B, 22nd Ed. (2012)
	Copper	APHA 3120 B, 22nd Ed. (2012)
Clay kaolinic Clay soil granite Bauxite sand sediment	Uranium Thorium	In-House Method Ref. No.: WP/MBA/REE-01, Based on PerkinElmer Application Notes.

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