

Schedule

Issue date: 20 August 2025
Valid Until: -



NO: SAMM 254

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LABORATORY LOCATION/ CENTRAL OFFICE:	Chemistry, Civil & Geotechnical Laboratory, Geolab (M) Sdn. Bhd. 380-380A, Jalan Simbang Taman Perling 81200 Johor Bahru, Johor , , MALAYSIA
	
ACCREDITED SINCE :	20 AUGUST 2025
FIELD(S) OF TESTING:	CHEMICAL MECHANICAL
SITE:	
1 . SITE LABORATORY(HQ) :	CATEGORY I
FIELD(S) OF TESTING :	MECHANICAL

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).

CENTRAL LOCATION:	Chemistry, Civil & Geotechnical Laboratory, Geolab (M) Sdn. Bhd. 380-380A, Jalan Simbang Taman Perling 81200 Johor Bahru, Johor , ,
FIELD(S) OF TESTING :	CHEMICAL, MECHANICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Soils Aggregates	Sulphate	BS EN 1744-1:2009+A1:2012, Clause 10 & 12
	Chloride	BS EN 1744-1:2009+A1:2012, Clause 7
	pH Value	BS 1377-3: 2018 + A1:2021, Clause 12
Soils Clays And Soils	Sulphate	BS 1377: Part 3: 1990, Clause 5

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Organic matter	BS 1377-3: 2018 + A1:2021, Clause 4
	Chloride	BS 1377-3: 2018 + A1:2021, Clause 9
	pH Value	BS 1377-3: 2018 + A1:2021, Clause 12
Water Groundwater Surface Water	Dissolved oxygen	BS EN 25813 : 1993 BS 6068 : Section 2.3:1993 ISO 5813:1983
	Ammonium nitrogen	BS 6068: Section 2.7:1984 ISO 5664:1984
	Chemical Oxygen Demand	BS 6068: Section 2.34:1988
	Suspended solids	BS 2690-Part 120:1981
	Dissolved solids	BS 2690-Part 121:1981
	Bicarbonate and carbonate ions	ASTM D 523-82 ASTM D 513-82
	Oil and grease	ASTM D 4281-95 (2001)
	Chloride	BS 6068: Section 2.37:1990 ISO 9297:1989
	Sulphate	BS 1377: Part 3: 1990, Clause 5
	Total Chlorine	BS 6068: Section 2.27:1990 BS EN ISO 7393-3: 2000
	pH Value	BS 1377-3: 2018 + A1:2021 Clause 12

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Bituminous Materials And Bituminous Pavement(solid And Liquid) Asphalt	Thickness or height of compacted asphalt mixtures specimen	ASTM D3549/D3549M-18
Concrete (fresh And Hardened) Concrete Core	Cored Specimens – Taking, Examination and Compression Test Compression Force: Maximum 1000 kN (Core)	BS EN 12504-1:2019
Soils Geotechnical	Determination of Water Content	BS EN ISO 17892-1:2014

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of Liquid and Plastic Limits - Casagrande Method - Fall Cone Method o Four-point test o One-point test	BS EN ISO 17892-12:2018 + A1:2021
	Liquid limit, Plastic limit and Plasticity index	ASTM D4318:17
	Determination of Shrinkage Characteristics - Linear Shrinkage	BS 1377-2:2022 #7
	Determination of Bulk Density	BS EN ISO 17892-2:2014
	Determination of Particle Density	BS EN ISO 17892-3:2015
	Determination of Particle Size Distribution	BS EN ISO 17892-4:2016
	Determination of Electrical Resistivity – Wenner Probe Method	BS 1377-3: 2018 + A1:2021
	Incremental Loading Oedometer Test	BS EN ISO 17892-5:2017
	Permeability Tests	BS EN ISO 17892-11:2019
	Unconfined Compressive Test (UCT)	BS EN ISO 17892-7:2018
	Unconsolidated Undrained Triaxial Test (UU)	BS EN ISO 17892-8:2018
	Determination of the Undrained Shear Strength in Triaxial Compression with Multistage Loading and without Measurement of Pore Pressure (MMU)	BS 1377: Part 7: 1990: Clause 9
	Consolidated Triaxial Compression Test (CIU, CAU)	BS EN ISO 17892-9:2018
	Consolidated Triaxial Compression Test (CID, CAD)	BS EN ISO 17892-9:2018
	Determination of Thermal Conductivity	ASTM D5334: 22
	Thermal Resistivity Measurement	IEEE 442 - 2017
	Determination of Shear Strength by • Laboratory Vane Method • Direct Shear Tests	BS 1377: Part 7: 1990: Clause 3 BS EN ISO 17892-10 : 2018
Rocks	Slake Durability of Shales and Other Similar Weak Rocks	ASTM D4644 – 16
Aggregates	Clay, Silt and Dust	BS 812: Part 1:1975, Clause 7.2.4
	Particle densities and water absorption	BS 812: Part 2: 1995, Clause 5
	Soundness of aggregates	ASTM C88/C88M-18
	Flakiness Index	BS 812: Section 105.1: 1989
	Elongation Index	BS 812: Section 105.2: 1990

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Aggregate crushing value	BS 812: Part 110: 1990
	Ten percent fines value	BS 812: Part 111: 1990
	Particle size distribution (Sieving Method)	BS EN 933-1:2012 MS EN 933-1:2011
	Aggregate impact value	BS 812: Part 112: 1990
Microstructural Tests Onmetallic & Non-metallicalloys Macroscopic Examination Ofsteel steel Bar	Tensile Testing to measure yield strength, tensile strength and elongation of bar Tensile Strength: 0 kN to 600 kN	BS EN ISO 6892-1:2019
	Bend Test	ISO 15630-1:2019(E) clause 6 & 7 MS 146 :2014, Clause 7.3.5
Soils	Maximum dry density / Water content relationship	BS 1377: Part 2: 2022
Concrete (fresh And Hardened)	Initial Surface Absorption	BS 1881:Part 208:1996
	Electrical Indication of Concrete Ability to Resist Chloride Ion Penetration	ASTM C1202-22
	Water Absorption of Concrete	BS 1881-122:2011 + A1:2020
	Compressive Strength of Test Specimens	BS EN 12390-3:2019
	Density of Hardened Concrete	BS EN 12390-7:2019/AC:2020(E)

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SITE LOCATION (HQ)	1. CATEGORY I
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SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environmental Test	Environmental Noise Level Measurement	BS 7445-1:2003 ISO 1996-1:2016
Soils	Field Density Test (Sand Replacement Method)	BS 1377: Part 9:1990 Clause 2.1
	Field Density Test (Core Cutter Method)	BS 1377: Part 9:1990 Clause 2.4
	Determination of Moisture Content (Calcium Carbide Pressure Tester)	ASTM D4944-18
	In-situ California Bearing Ratio (CBR)	BS 1377:Part 9:1990 Clause 4.3

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