Issue date: 27 March 2024
Valid Until: 20 November 2025

NO: SAMM 617
(Issue 1, 27 March 2024 replacement
of SAMM 617 dated 27 March 2024)

LABORATORY LOCATION/ CENTRAL OFFICE:	HBPTU-School of Housing, Building and Planning Testing Unit, USM School of Housing, Building and Planning Universiti Sains Malaysia 11800 Pulau Pinang , 11800, PULAU PINANG MALAYSIA
ACCREDITED SINCE :	24 MARCH 2025
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:	HBPTU-School of Housing, Building and Planning Testing Unit, USM School of Housing, Building and Planning Universiti Sains Malaysia 11800 Pulau Pinang , 11800, Pulau Pinang
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
Concrete	Compression -Cube -Core (up to 3000 kN)	MS EN 12390-3: 2012 MS EN 12504-1: 2013
Metallic Material	Tensile Test (up to 2000 kN)	MS ISO 15630-1: 2012 ISO 6892-1: 2019
Hot Rolled Steel Bar	Tensile Test (up to 2000 kN)	MS 146: 2014 (Clause 7.3.3) BS 4449:2005+A3: 2016 (Clause 7.2)
Soils	Determination of In-situ Density (Field Density) of Soil (Sand Replacement Method)	BS 1377: Part 9: 1990 (Clause 2.1 & 2.2) MS 1056: Part 9: 2005 (Clause 4.2 & 4.3)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of Dry Density Moisture Content Relationship (Proctor Compaction Test) 4.5 kg Rammer	BS 1377-2:2022 (Clause 11.5 and 11.6) MS 1056: Part 4: 2005 (Clause 4.2, 4.5 & 4.6)
	2.5 kg Rammer	BS 1377-2:2022 (Clause 11.3 and 11.4) MS 1056: Part 4: 2005 (Clause 4.2, 4.3 & 4.4)
	Determination of Moisture Content (Oven Drying)	BS 1377: Part 2: 1990 (Clause 3.2) MS 1056: Part 2: 2005 (Clause 4.2)
	Determination of California Bearing Ratio (CBR) (Inoperative)	BS 1377-2:2022 Clause 15.2 (Preparation of Sample) Clause 15.3 (Soaking) Clause 15.4 (Penetration) BS 1056: Part 4: 2005 (Confirmed 2013) Clause 8.2.3.3 (Preparation of Sample) Clause 8.3 (Soaking) Clause 8.4 (Penetration)
	Determination of In-Situ California Bearing Ratio (CBR) (Inoperative)	BS 1377: Part 9: 1990 (Clause 4.3) MS 1056: Part 9: 2005 (Clause 6.4)