


NO: SAMM 486(Issue 1, 30 July 2025 replacement
of SAMM 486 dated 30 July 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE: 	CREaTE LABORATORIES, BAHAGIAN INOVASI, PENYELIDIKAN DAN PEMBANGUNAN KEJURUTERAAN, PUSAT KECEMERLANGAN KEJURUTERAAN DAN TEKNOLOGI JKR (CREaTE), JABATAN KERJA RAYA MALAYSIA JALAN KEMUS, SIMPANG AMPAT , 78000, MELAKA MALAYSIA
ACCREDITED SINCE :	30 JULY 2025
FIELD(S) OF TESTING:	ELECTRICAL (ELECTRICAL RESEARCH LABORATORY (ERL)) MECHANICAL (MECHANICAL RESEARCH LABORATORY (MRL)) MECHANICAL (STRUCTURE, CONCRETE AND ENVIRONMENTAL RESEARCH LABORATORY (SRL)) MECHANICAL (GEOTECHNICAL RESEARCH LABORATORY (GRL))

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:	CREaTE LABORATORIES, BAHAGIAN INOVASI, PENYELIDIKAN DAN PEMBANGUNAN KEJURUTERAAN, PUSAT KECEMERLANGAN KEJURUTERAAN DAN TEKNOLOGI JKR (CREaTE), JABATAN KERJA RAYA MALAYSIA JALAN KEMUS, SIMPANG AMPAT , 78000, Melaka
FIELD(S) OF TESTING :	ELECTRICAL, MECHANICAL, MECHANICAL, MECHANICAL

SCOPE OF TESTING : ELECTRICAL (ELECTRICAL RESEARCH LABORATORY (ERL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Moulded Case Circuit Breaker (mccb)	Opening Under Overload Conditions (up to 400A)	MS IEC 60947-2: 2016 Clause 8.3.3.2
Miniature Circuit Breaker (mcb)	Test of Time Current Characteristic	MS IEC 60898-1: 2015 Clause 9.10.2

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Test of Instantaneous Tripping and of Correct Opening of the Contacts	MS IEC 60898-1: 2015 Clause 9.10.3

SCOPE OF TESTING : MECHANICAL (MECHANICAL RESEARCH LABORATORY (MRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Building Materials	Steady-State Thermal Transmission Properties	ASTM C518 - 21

SCOPE OF TESTING : MECHANICAL (STRUCTURE, CONCRETE AND ENVIRONMENTAL RESEARCH LABORATORY (SRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Building Materials	Steady-State Thermal Transmission Properties	ASTM C518 - 21

SCOPE OF TESTING : MECHANICAL (GEOTECHNICAL RESEARCH LABORATORY (GRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Building Materials	Steady-State Thermal Transmission Properties	ASTM C518 - 21

SCOPE OF TESTING : MECHANICAL (MECHANICAL RESEARCH LABORATORY (MRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Concrete	Compressive Strength of Concrete Cube/Cylinder	MS EN 12390-3:2012

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Compressive Strength of Concrete Core	MS EN 12504-1:2013
Metallic Materials	Tensile Test of Metallic Materials	ISO 6892-1: 2019 (Method B)

SCOPE OF TESTING : MECHANICAL (STRUCTURE, CONCRETE AND ENVIRONMENTAL RESEARCH LABORATORY (SRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Concrete	Compressive Strength of Concrete Cube/Cylinder	MS EN 12390-3:2012
	Compressive Strength of Concrete Core	MS EN 12504-1:2013
Metallic Materials	Tensile Test of Metallic Materials	ISO 6892-1: 2019 (Method B)

SCOPE OF TESTING : MECHANICAL (GEOTECHNICAL RESEARCH LABORATORY (GRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Concrete	Compressive Strength of Concrete Cube/Cylinder	MS EN 12390-3:2012
	Compressive Strength of Concrete Core	MS EN 12504-1:2013
Metallic Materials	Tensile Test of Metallic Materials	ISO 6892-1: 2019 (Method B)

SCOPE OF TESTING : MECHANICAL (MECHANICAL RESEARCH LABORATORY (MRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Soil (inoperative)	Determination of moisture content (Oven Drying Method)	MS 1056-2:2005 (Confirmed 2013): Clause 4.2 BS 1377-2:1990: Clause 3.2
	Determination of liquid limit (Cone Penetrometer Method - Definitive Method)	MS 1056-2:2005 (Confirmed 2013): Clause 5.3 BS 1377-2:1990: Clause 4.3

Schedule

Issue date: 30 July 2025
Valid Until: -



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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of plastic limit (Mould and roll by finger)	MS 1056-2:2005 (Confirmed 2013): Clause 6.3 BS 1377-2:1990: Clause 5.3

SCOPE OF TESTING : MECHANICAL (STRUCTURE, CONCRETE AND ENVIRONMENTAL RESEARCH LABORATORY (SRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Soil (inoperative)	Determination of moisture content (Oven Drying Method)	MS 1056-2:2005 (Confirmed 2013): Clause 4.2 BS 1377-2:1990: Clause 3.2
	Determination of liquid limit (Cone Penetrometer Method - Definitive Method)	MS 1056-2:2005 (Confirmed 2013): Clause 5.3 BS 1377-2:1990: Clause 4.3
	Determination of plastic limit (Mould and roll by finger)	MS 1056-2:2005 (Confirmed 2013): Clause 6.3 BS 1377-2:1990: Clause 5.3

SCOPE OF TESTING : MECHANICAL (GEOTECHNICAL RESEARCH LABORATORY (GRL))

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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	Determination of liquid limit (Cone Penetrometer Method - Definitive Method)	MS 1056-2:2005 (Confirmed 2013): Clause 5.3 BS 1377-2:1990: Clause 4.3
	Determination of plastic limit (Mould and roll by finger)	MS 1056-2:2005 (Confirmed 2013): Clause 6.3 BS 1377-2:1990: Clause 5.3

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