

NO: SAMM 775

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LABORATORY LOCATION:
(PERMANENT LABORATORY)DCS CONSOLIDATED CONSTRUCTION SDN. BHD.
NO 6 & 6A, JALAN MERU BESTARI A4
MEDAN MERU BESTARI
30020 IPOH PERAK
MALAYSIA

FIELD 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).

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hardened concrete	Compressive Strength of Concrete Cube (0-2000 kN)	BS EN 12390-3:2009
	Density of Hardened Concrete	BS EN 12390-7:2009
Aggregates/ Crusher-run	Particle Density & Water Absorption	BS 812: Part 2:1995 Clause 5
	Particle Size Distribution	BS EN 933-1:2012
	Flakiness Index	BS 812: Part 105-1:1989
	Elongation Index	BS 812: Part 105-2:1990
	Aggregate Crushing Value	BS 812: Part 110:1990
MS 30: Part 8:1995		

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Crusher-run	Determination of Dry Density/ Moisture Content Relationship (Compaction Test)	BS 1377: Part 4:1990 Clause 3.3 to Clause 3.6
	Moisture Content	BS 1377: Part 2:1990 Clause 3.2
	Liquid Limit (Casagrande Method)	BS 1377: Part 2:1990 Clause 4.5
	Plastic Limit & Plasticity Index	BS 1377: Part 2:1990 Clause 5.0
Soil/ Sand	Determination of Dry Density/ Moisture Content Relationship (Compaction Test)	BS 1377: Part 4:1990 Clause 3.3 to Clause 3.6
	Moisture Content	BS 1377: Part 2:1990 Clause 3.2
	Liquid Limit (Casagrande Method)	BS 1377: Part 2:1990 Clause 4.5
	Plastic Limit & Plasticity Index	BS 1377: Part 2:1990 Clause 5.0
	Particle Size Distribution	BS 1377: Part 2:1990 Clause 9.2 and Clause 9.3
Bituminous Premix	Thickness & Height of Compacted Bituminous Paving Mixtures Specimens	ASTM D3549/ D 3549 M-18

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hot rolled steel bars for the reinforcement of concrete	a) Tensile strength	BS EN ISO 6892-1:2019
Steel bar and steel plate	b) Yield stress	BS EN ISO 15630-1:2019
	c) Elongation after fracture	MS 146:2014 (Clause 9)

Signatories:

1. **Anwar bin Monawar**
2. **Noor Hasima bt Abu Hassan**
3. **Muhammad Muhaimin bin Ahmad Muzaini**
4. **Nur Azizan bt Koosairi (Hardened Concrete & Bituminous Premix only)**

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SCOPE OF TESTING: MECHANICAL**SITE: CATEGORY I**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Soil	In-situ Density Test (Sand Replacement Method)	BS 1377: Part 9:1990 Clause 2.1
	Determination of the Dynamic Probing Resistance Using The 60°C/ 90°C Cone	BS 1377: Part 9:1990 Clause 3.2
Sand/ Crusher-run	In-situ Density test (Sand Replacement Method)	BS 1377: Part 9:1990 Clause 2.1 & 2.2
Hardened concrete	Surface Hardness Test by Rebound Hammer Method in rebound number, N	BS EN 12504-2:2012

Signatories:

1. **Anwar bin Monawar**
2. **Noor Hasima bt Abu Hassan**
3. **Muhammad Muhaimin bin Ahmad Muzaini**