



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **TARMAK LABORATORIES LLC**

P.O BOX: 2974, GHALA INDUSTRIAL ESTATE  
MUSCAT, 130, SULTANATE OF OMAN

**Testing Laboratory TL-1177**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 30, 2023



A handwritten signature in black ink, reading "Raj Nathan".

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## TARMAK LABORATORIES LLC

[www.tarmaklab.com](http://www.tarmaklab.com)

**Contact Name** Ajeesh Jayalal Valiyakunnil

**Contact Phone** +968 92294313

*Accredited to ISO/IEC 17025:2017*

*Effective Date August 30, 2023*

<b>Concrete</b>	
AASHTO T277	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration
ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration
BS 1881-122	Testing concrete - Method for determination of water absorption
BS 1881-208	Testing concrete - Recommendations for the determination of the initial surface absorption of concrete
BS EN 12390-3	Testing hardened concrete - Compressive strength of test specimen
BS EN 12390-7	Testing hardened concrete. Density of hardened concrete
BS EN 12390-8	Testing hardened concrete - Depth of penetration of water under pressure
DIN 1048 Part 5	Testing hardened concrete - Depth of penetration of water under pressure
<b>Soils</b>	
ASTM D1556/D1556M	Standard Test Method for Density and Unit Weight of Soil In Place by Sand Cone Method Includes On-Site Testing
ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lb/ft <sup>3</sup> (2700kN-m/m <sup>3</sup> ))
ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
ASTM D1883	Standard Test Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils (Only Method A)
ASTM D422	Standard Test Method for Particle-Size Analysis of Soils
BS 1377 Part 9 Cl. 2.1	Methods of test for Soils for civil engineering purposes - Part 9: In-situ tests Cl. 2.1 Sand replacement method suitable for fine- and medium-grained soils (small pouring cylinder method) (On-Site testing)

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BS 1377 Part 9 Cl. 2.2	Methods of test for Soils for civil engineering purposes - Part 9: In-situ tests Sand replacement method suitable for fine-, medium- and coarse-grained soils (large pouring cylinder method) (On-Site testing)
BS 1377 Part 2 Cl. 9.2 Cl. 9.3	Methods of test for Soils for civil engineering purposes - Part 2: Classification tests – Cl. 9.2 9.2 Wet sieving method Cl. 9.3 - Dry sieving method
BS 1377 Part 2 Cl. 4 Cl.5 Cl. 8	Methods of test for Soils for civil engineering purposes - Part 2: Classification tests – Cl. 4 - Determination of the liquid limit Cl. 5 - Determination of the plastic limit and plasticity index Cl. 8 - Determination of particle density
BS 1377 Part 4 Cl. 3.5 Cl. 3.6 Cl. 7	Standard Methods of test for Soils for civil engineering purposes Part 4. Compaction-related tests Cl. 3.5 - Method using 4.5 kg rammer for soils with particles up to medium-gravel size Cl. 3.6 - Method using 4.5 kg rammer for soils with some coarse gravel-size particles Determination of the California Bearing Ratio (CBR)
<b>Aggregates</b>	
ASTM C136/C136M	Standard test method for sieve analysis of fine and coarse aggregates
BS 812-105.1	Testing of Aggregate - Method of determination of particle shape – Flakiness index
BS 812-105.2	Testing aggregates - methods for determination of particle shape- elongation index of coarse aggregate
BS 812-110	Testing aggregates - methods for determination of Aggregate Crushing Value (ACV)
BS 812-111	Testing aggregates - method for determination of ten percent fines value (TFV)
BS 812-112 Cl. 7.1 & 7.2	Testing aggregates-method for determination of Aggregate Impact Value (AIV) (Wet & Dry)
BS EN 933-1	Tests for geometrical properties of aggregates Determination of particle size distribution — Sieving method
<b>Marble</b>	
SASO ASTM C97	Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone
SASO ASTM C99/C99M	Standard Test Method for Modulus of Rupture of Dimension Stone
SASO ASTM C170/C170M	Standard Test Method for Compressive Strength of Dimension Stone
SASO ASTM C880/C880M	Standard Test Method for Flexural Strength of Dimension Stone
<b>Cement</b>	
BS EN 196-1 Cl. 9.2	Methods of testing cement - Determination of strength – Cl. 9.2 Compressive strength

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BS EN 196-3	Methods of testing cement – Determination of setting times and soundness
BS EN 196-6	Methods of testing cement - Determination of fineness

*Note: Sampling at site is excluded from the labs scope of accreditation.*