

# **CERTIFICATE OF ACCREDITATION**

This is to attest that

### HOUSING AND BUILDING NATIONAL RESEARCH CENTER SOIL MECHANICS AND GEOTECHNICAL ENGINEERING LABORATORY

87 EL-TAHRIR STREET DOKKI, EGYPT

#### **Testing Laboratory TL-320**

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 December 5, 2024



International Accreditation Service

Issued under the authority of IAS management

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## SCOPE OF ACCREDITATION

International Accreditation Service, Inc. 3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

#### HOUSING AND BUILDING NATIONAL RESEARCH CENTER SOIL MECHANICS AND GEOTECHNICAL ENGINEERING LABORATORY

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Accredited to ISO/IEC 17025:2017

Effective Date December 5, 2024

СМТ	
ASTM D422-63	Standard test method for particle-size analysis of soils
ASTM D698	Standard test methods for laboratory compaction characteristics of soil using standard effort (12 400 ft-lbf/ft3 (600 kN-m/m3))
ASTM D1557	Standard test methods for laboratory compaction characteristics of soil using modified effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))
ASTM D1883	California Bearing Ratio (CBR) of Laboratory-Compacted Soils
ASTM D2166/D2166M	Standard test method for unconfined compressive strength of cohesive soil
ASTM D2216	Standard test methods for laboratory determination of water (moisture) content of soil and rock by mass
ASTM D2435/D2435M	Standard test methods for one-dimensional consolidation properties of soils using incremental loading
ASTM D2487	Standard practice for classification of soils for engineering purposes (unified soil classification system)
ASTM D2845	Standard Test Method for Laboratory Determination of Pulse Velocities and Ultrasonic Elastic Constants of Rock1
ASTM D3080	Standard test method for direct shear test of soils under consolidated drained conditions
ASTM D3967	Standard Test Method for Splitting Tensile Strength of Intact Rock Core Specimens
ASTM D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
ASTM D4546	Standard test methods for one-dimensional swell or collapse of soils
ASTM D4644	Standard Test Method for Slake Durability of Shales and Other Similar Weak Rocks
ASTM D5333	Standard test method for measurement of collapse potential of soils



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ASTM D5731	Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications
ASTM D6637/D6637M	Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method
ASTM D7012	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures (Method C and D only)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis (clauses 9 to 15)
BS 1377-2	Methods of test for soils for civil engineering purposes - classification tests
BS 1377-4	Methods of test for soils for civil engineering purposes - compaction-related tests
BS EN ISO 17892-7	Geotechnical investigation and testing – Laboratory testing of soil – Part 7: Unconfined compression test
BS 5930	Code of practice for site investigations
BS EN ISO 10319	Geosynthetics. Wide-width tensile test
ECP 2001 202-2.1	Soil classification and description
ECP 2001 202-2.2	Determination of water content
ECP 2001 202-2.3	Determination of liquid limit of soil
ECP 2001 202-2.4	Determination of plastic limit of soil
ECP 2001 202-2.9	Determination of grain size distribution using sieves
ECP 2001 202-2.13	Determination of compressibility indices
ECP 2001 202-2.15	Determination of swelling indices
ECP 2001 202-2.16	Determination of collapse indices
ECP 2001 202-2.18	Determination of compaction characteristics of soils
ECP 2001 202-2.21	Determination of shear strength parameters using unconfined compression
EN ISO 17892-5	Geotechnical investigation and testing. Laboratory testing of soil. Incremental loading oedometer test
JGS 0561-2000	Method for consolidated constant pressure direct box shear test on soils

BS: British Standard

ECP: Egyptian Code of Practice JGS: Japanese Geotechnical Society

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