

Accreditation Scope

Arab Center For Engineering Studies – Al Ain Branch (NAL 119)
Testing Laboratory, (ISO/IEC 17025:2017)

Al Sanaiya, Al Ain, UAE

Issue Date: 13-06-2020

Expiry Date: 12-06-2023

Issue No: 03

| Testing Field | Materials/ Products tested | Type of test/ Test parameter/ Properties measured/ Range of measurement | Test Method (Standard, Internal Procedure, Technique) | Permanent lab (P) / Client-site (S) |
|---------------|---------------------------------|--|---|---|
| Geotechnical | Field Sampling & Testing | Standard Penetration Test | ASTM D1586-18 | S |
| | | Soil Sampling | ASTM D1586-18 | |
| | | Ground Water Level Measurement | BS 5930:2015, Section 4, Cl. 26.2 & Cl. 26.3 | |
| | | Ground Water Sampling | BS 5930:2015, Section 4, Cl. 26.4 | |
| | Description & Classification | Soil Description | ASTM D2488-17 ^{e1} | P |
| | | Rock Description | BS 5930:2015, Section 6, Cl. 36 | |
| Chemical | Soil | Determination of Water soluble Sulphate Content of Soil | BS 1377-3:2018 Cl. 7.3 & 7.6 | P |
| | | Determination of Acid soluble Sulphate Content of Soil | BS 1377-3:2018 Cl. 7.6 & 7.9 | |
| | | Determination of Water soluble Chloride Content of Soil | BS 1377-3:2018 Cl. 9.2 | |
| | | Determination of Acid soluble Chloride Content of Soil | BS 1377-3:2018 Cl. 9.3 | |
| | | Determination of pH of Soil | BS 1377-3:2018 Cl. 12 | |
| | Ground Water | Determination of pH of Ground water | BS 1377-3:2018 Cl. 12 | P |
| | | Determination of Sulphate Content of Ground Water | BS 1377-3:2018 Cl. 7.6 & 7.8 | |
| | | Determination of Chloride content of Ground Water | BS 1377-3:2018 Cl. 9.2 | |

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| Geotechnical | Soil | Geotechnical investigation & testing. Laboratory testing of soil - Determination of particle size distribution | BS EN ISO 17892-4:2016 Cl. 4.2,5.2 & 6.1 BS 1377-2:1990 (Amd. 9027-96), Cl. 9.2 | P |
| | | Geotechnical investigation & testing. Laboratory testing of soil- Determination of particle size distribution - Hydrometer method | BS EN ISO 17892-4:2016, Cl. 4.3, 5.3 & 6.2 BS 1377-2:1990 (Amd. 9027-96), Cl. 9.5 | |
| | | Geotechnical investigation & testing. Laboratory testing of soil- Determination of liquid & plastic limits | BS EN ISO 17892- 12:2018, Cl. 6.3, 6.4 & 6.5 BS 1377-2:1990 (Amd. 9027-96), Cl. 4.5, Cl. 5.3 and Cl. 5.4 | |
| | | Geotechnical investigation & testing. Laboratory testing of soil- Determination of water content | BS EN ISO 17892-1:2014, BS 1377-2:1990 (Amd. 9027-96), Cl. 3.2 | |
| | | Determination of Water (Moisture) Content of Soil & Rock by Mass | ASTM D2216-19 | |
| | Rock | Unconfined Compressive Strength of Rock Core Specimen | ASTM D7012-2014 ^{e1} , Method C | P |
| | | Rock Quality Designation (RQD) | ASTM D 6032/D6032M-17 | |
| | | Core Recovery Preserving and Transporting Rock Core Samples | ASTM D5079-08 (Withdrawn 2017) | |
| | Rock | Preparation of rock cores Specimens | ASTM D4543-19 | P |
| | Reporting | Reporting | BS 5930:2015, Section 10 Cl.63 | P |

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| Physical | Soil | Determination of Dry Density- Moisture Content Relationship | BS 1377-4:1990 (Amd. 13925-02), Cl. 3.5 & 3.6 | P |
| | | Determination of In-Situ Density by Sand Replacement Method | BS 1377-9:1990 (Amd. 8264-95), Cl. 2.2 | |
| | Concrete | Testing hardened concrete. Shape, dimensions & other requirements for specimens & molds | BS EN 12390-1:2012 | P |
| | | Testing hardened concrete. Making & curing specimens for strength tests | BS EN 12390-2:2019 | |
| | | Testing hardened concrete. Compressive strength of test specimens | BS EN 12390-3:2019 | |
| | | Testing hardened concrete. Density of hardened concrete | BS EN 12390-7:2019 | |
| | | Testing concrete Part 111: Method of normal curing of test specimens (20 °C method) | BS 1881-111:1983 Amd. 9387:1997 | |
| | | Testing concrete Part 114: Methods for determination of density of hardened concrete | BS 1881-114:1983 Amd. 6721:1989 | |
| | | Testing concrete Part 116: Method for determination of compressive strength of concrete cubes | BS 1881-116:1983 Amd. 6720:1991 | |
| | END | | | |