



Accreditation Scope

MAS Geotechnical & Material Testing laboratory - Sole Proprietorship L.L.C., NAL-173
Testing Laboratory, (ISO/IEC 17025:2017)

Unit No. 6, Sultan Bin Khalifa Building, ICAD 3, Mussafah South, Abu Dhabi, UAE, Abu Dhabi, United Arab Emirates

Issue Date: 20/12/2023

Expiry Date: 19/01/2025

Issue No: 2

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)
Civil engineering	Geotechnical- Soil Investigation using Rotary and Percussion	Determination of the penetration resistance using the split-barrel sampler (Standard penetration test - SPT) Geotechnical investigation and testing — Field Testing Standard penetration test (SPT)	BS 1377 Part 9:1990 – AMD 17229-2007, Clause 3.3 BS 5930:2015 +A1:2020	S
Civil engineering	Soil	Soil Sampling	BS 5930:2015 + A1:2020, Sec. 4, Cl. 25.6	S
Civil engineering	Soil	Description of Soils	BS 5930:2015 +A1:2020, Sec. 6, Cl. 33	S / P
Civil engineering	Ground Water	Groundwater Sampling	BS 5930:2015 +A1:2020, Sec. 4, Cl. 26.4	S

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Civil engineering	Ground Water	Groundwater Measurements	BS 5930:2015 +A1:2020, Sec. 4, Cl. 26.1 to 26.3 & Sec. 8, Cl. 52.3	S
Civil engineering	Rock	Rock Sampling Rock Core Recovery (RCR)	BS 5930:2015 +A1:2020, Sec. 4, Cl. 25.7	S
Civil engineering	Rock	Description of Rocks	BS 5930:2015 +A1:2020, Sec. 6, Cl. 36	S / P
Civil engineering	Rock	Rock Quality Designation (RQD)	BS 5930:2015 +A1:2020, Sec. 6, Cl. 36.4	S / P
Civil engineering	Rock	Preparation of rock Core	ASTM D4543:19	P
Civil engineering	Rock	Unconfined Compressive Strength	ASTM D 7012:2014E1, Method C	P
Civil engineering	Rock	Determination of Water (Moisture) Content of soil & Rock sample	ASTM D2216:19	P
Civil engineering	Soils	Particle Size Distribution Sieving Method	BS EN ISO 17892 – Part 4:2016 Cl. 4.2, 5.2 & 6	P

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Civil engineering	Soils	Particle Size Distribution Hydrometer Method	BS EN ISO 17892 – Part 4:2016, Cl. 4.3, 5.3 & 6.2	P
Civil engineering	Soils	Liquid Limit, Plastic Limit and Plasticity Index Casagrande method	BS EN ISO 17892 – Part 12:2018, Cl. 5.4 & 5.5, 6.3, 6.4 & 6.5	P
Civil engineering	Soils	Determination of water content of Soil	BS EN ISO 17892- 1:2014	P
Civil engineering	Soils	Determination of Water (Moisture) Content of soil sample	BS 1377 Part 2:1990 Cl. 3.2 AMD 9027- 1996	P
Civil engineering	Report	Reporting	BS 5930:2015+A1:2020, Clause 63 Section 10	P
Physical	Construction Materials	Dry Density/ Moisture Content Relationship Using 4.5Kg rammer for coarse and medium gravel size particles)	BS 1377:1990: Part 4 AMD 13925-2002 Clause 3.5 & 3.6	P
Physical	Construction Materials	Determination of California Bearing Ratio (CBR)	BS 1377-4:1990 AMD. 13925 -02, Cl. 7.0	P

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Physical	Construction Materials	Determination of Water (Moisture) Content of soil sample	BS 1377 Part 2:1990 AMD 9027-1996 Clause 3.2	P
Chemical	Soil	Acid Soluble Sulphate Content of Soil -	BS 1377-3:2018 + A1:2021 Cl. 7.2, 7.9 & 7.6	P
Chemical	Soil	Water Soluble Sulphate Content of Soil	BS 1377-3:2018 + A1:2021 Cl. 7.2, 7.3 & 7.6	P
Chemical	Ground Water	Sulphate Content of Ground Water	BS 1377-3:2018 + A1:2021 Cl. 7.2, 7.8 & 7.6	P
Chemical	Soil	Acid Soluble Chloride Content of Soil	BS 1377-3:2018 + A1:2021 Cl. 9.3	P
Chemical	Soil	pH of Soil	BS 1377-3:2018 + A1:2021 Cl. 12	P
Chemical	Soil	Water Soluble Chloride Content of Soil	BS 1377-3:2018 + A1:2021 Cl. 9.2	P
Chemical	Ground Water	pH of Ground Water	BS 1377-3:2018 + A1:2021 Cl. 12	P
Chemical	Ground Water	Chloride Content of Ground Water	BS 1377-3:2018 + A1:2021 Cl. 9.2	P
Construction materials and building	Soil	Water Soluble Salt	Earth Manual Designation E-8	P

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Construction materials and building	Soil	Organic Matter Content	BS 1377 - 3:2018 + A1:2021 Cls.4	P
Construction materials and building	Soil	Sand Replacement Method suitable for Fine-Medium and Coarse-Grained Soils (Large Pouring Cylinder Method)	BS 1377 Part 9:1990 AMD 17229-2007 Cls.2.2	S
Construction materials and building	Soil	Laboratory Compaction Characteristics of Soil using Modified Effort	ASTM D1557-12e1	P
Construction materials and building	Soil	Laboratory Compaction Characteristics of soil using Standard Effort	ASTM D698-12E1	P
Construction materials and building	Soil	California Bearing Ratio	ASTM D1883-21	P
Construction materials and building	Soil	Plate Load Test	BS 1377 part 9:1990 AMD 17229-2007 Cls.4.1	S
Civil engineering	Ground Water	Standpipe Piezometer	BS 5930 : 2015 +A1:2020 Cls.52.5 and 52.10	S
Civil engineering	Soil	Cone Penetration Test	BS EN ISO 22476-1:2012	S

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Construction materials and building	Soil	Direct Shear	ASTM D3080/D3080M-11	P
Construction materials and building	Soil	Consolidation Test	ASTM D2435/D2435M-11 (Re-approved 2020)	P
Civil engineering	Rock	Point Load Test	ASTM D5731-16	P
Civil engineering	Soil	Unconfined Compression Test	ASTM D7012 Method C	P
Chemical	Soil	Carbonate Content	BS 1377 -3: 2018 +A1:2021 Cl.8	P
Chemical	Soil	Gypsum Content	BS 1377 -3:2018 +A1:2021 Cl. 7.2, 7.9 & 7.6 / MAS-QLT-IHTP-001	P
Chemical	Ground Water	Total Dissolved Solids (TDS)	BS 1377-3:2018 +A1:2020 CLS.11	P
END				

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