



# Accreditation Scope

Al Hai & Al Mukaddam for Geotechnical Works (LLC), NAL 101  
Testing Laboratory, (ISO/IEC 17025:2017)

M26 -Mussafah, Abu Dhabi, UAE P.O. Box. 132634, Abu Dhabi, United Arab Emirates

Issue Date: 27/03/2025

Expiry Date: 02/11/2027

Issue No: 5

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	Soil In - Situ Testing	Methods of test for soils for civil engineering purposes Part 9: In- situ tests Determination of the penetration resistance using the split-barrel sampler (Standard penetration test - SPT)	BS EN ISO 22476- 3:2005+A1:2011 * BS 1377 Part 9:1990- AMD 8264- 1995 Cl. 3.3	S
Geotechnical	Soil Sampling & Description	Code of practice for Ground Investigations Obtaining disturbed samples from boring tools & excavating equipment	BS 5930:2015+A1:2020 Section 4Cl. 25.3	S
Geotechnical	Soil Sampling & Description	Soil Sampling Open- tube sampling techniques	BS 5930:2015+A1:2020 Section 4Cl. 25.4	S

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Geotechnical	Soil Sampling & Description	Description of Soils	BS 5930:2015+A1:2020 Section 6Cl. 33	P/S
Geotechnical	Rock Sampling & Description	Code of practice for Ground Investigations Rock Sampling Rotary core samples	BS 5930:2015+A1:2020 Section 4Cl. 25.7	S
Geotechnical	Rock Sampling & Description	Description and Classification of Rocks Rock Core Recovery	BS 5930:2015+A1:2020 Section 6Cl. 36Clarks & Walker	P/S
Geotechnical	Ground Water Management	Code of practice for ground investigations Ground water monitoring Ground Water sampling	BS 5930:2015+A1:2020 Section 4Cl. 26	S
Geotechnical	Ground Water Management	Groundwater measurements	BS 5930:2015+A1:2020 Section 8Cl. 52, Section 4Cl. 26.2 & 26.3(Cl. 52.5 standpipe piezometer)	S
Geotechnical	Soil	Particle size distribution Wet & Dry sieving	BS 1377-2:2022, Clause 10 and BS EN ISO 17892- 4:2016, Cl. 5.2	P

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Geotechnical	Soil	Determination of Water (Moisture)	BS 1377-2:2022, Clause 4.1 and BS EN ISO 17892-1:2014+A1:2022	P
Geotechnical	Soil	Sedimentation by the hydrometer method	BS 1377-2:2022, Clause 10 and BS EN ISO 17892-4:2016, Cl. 5.3	P
Geotechnical	Soil	Liquid limit, plastic limit and plasticity index of soil	BS 1377-2:2022, Clause 5.2,6 and BS EN ISO 17892-12:2018+A2:2022, Cl.5.3, 5.5, 6.5	P
Geotechnical	Rock	Preparation of rock core (Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19	P
Geotechnical	Rock	Unconfined Compressive Strength of Rock Core Specimen	ASTM D7012-2014e1, Method C	P
Geotechnical	Rock	Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216-2019	P

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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	Soil	Acid Soluble Chloride Content of Soil	BS 1377-3:2018+A1:2021 Cl. 9.3	P
Chemical	Soil	Water Soluble Chloride Content of Soil	BS 1377-3:2018+A1:2021 Cl. 9.2	P
Chemical	Soil	pH of Soil, (0 to14) pH Units	BS 1377-3:2018+A1:2021 Cl. 12	P
Chemical	Ground Water	pH of Ground Water, (0 to14) pH Units	BS 1377-3:2018+A1:2021 Cl. 12	P
Chemical	Ground Water	Sulphate Content of Ground Water	BS 1377-3:2018+A1:2021 Cl. 7.2, 7.8, 7.6	P
Chemical	Ground Water	Chloride Content of Ground Water	BS 1377-3:2018+A1:2021 Cl. 9.2	P

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Reporting	Ground Investigation	Code of practice for ground investigations Reporting	BS 5930:2015+A1:2020 Section 10 Cl. 63	P
Physical	Soil	In Situ Density (Sand Replacement Method Suitable for Fine, Medium and Coarse-Grained Soils, Large And Small Pouring Cylinder)	BS 1377-9:1990; AMD 13925- 2002, Cl. 2.2 AMD 8264-1995	P/S
Physical	Soil	Determination of dry density/moisture content relationship using 4.5Kg rammer	BS 1377-2:2022, CL. 11.5 & 11.6	P
Physical	Concrete	Testing hardened concrete. Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1: 2021	P
Physical	Concrete	Testing hardened concrete. Making and curing specimens for strength tests	BS EN 12390-2:2019	P
Physical	Concrete	Compressive Strength of Concrete Cube	BS EN 12390-3: 2019	P

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Physical	Concrete	Testing hardened concrete. Density of hardened concrete	BS EN 12390-7:2019	P
Physical	Concrete	Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	*BS 1881-111:1983; AMD. 9387:1997	P
Physical	Concrete	Testing concrete Part 114: Methods for determination of density of hardened concrete	*BS 1881-114:1983; AMD 6721:1991	P
Physical	Concrete	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	*BS 1881-116:1983; AMD. 6720 :1991	P
<b>END</b>				

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