



# Accreditation Scope

## Al Masfoufa Engg. Lab for Geotechnical Services & Material (NAL 035) Testing Laboratory, (ISO/IEC 17025:2017)

Sanaiya Industrial Area, Al Ain, UAE

Issue Date: 10-10-2022

Expiry Date: 11-07-2023

Issue No: 10

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)
Physical	Aggregate	Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C 127-15	P
		Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C 128-15	
		Determination of Particle Size Distribution of Aggregate (Sieving Method)	BS EN 933-1:2012	
	Concrete	Water Permeability of Hardened Concrete	DIN 1048-5:1991, Cl. 7.6	
		Compressive Strength of Concrete Cubes	BS EN 12390-3:2019	
		Dimension and shape of hardened concrete	BS EN 12390-1:2012	
		Density of hardened concrete	BS EN 12390-7:2019	
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (RCP)	ASTM C 1202-19	
		Determination of the Initial Surface Absorption of Concrete (ISAT)	BS 1881-208:1996	
		Determination of Water Absorption of Concrete	BS 1881-122:2011+A-2020	
Soil	Determination of California Bearing Ratio (CBR)	BS 1377-4:1990, Cl.7, Amd. 13925-02		



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Physical	Soil	Determination of Dry Density/Moisture Content Relationship using 4.5 kg Rammer for Soils with Particles up to Medium-gravel Size and 4.5 kg Rammer for Soils with Some Coarse Gravel-size Particles	BS 1377-4:1990, Cl. 3.5 & 3.6, Amd. 13925-02	P
		Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> )) <sup>1</sup>	ASTM D 1557-12e1	P
		In Situ Density Test (Sand Replacement Method Suitable for Fine, Medium and Coarse-grained Soils, Large Pouring Cylinder Method)	BS 1377-9:1990; Cl.2.2, Amd. 8264-95	P / S
Geotechnical	Soil	Standard Penetration Test (SPT)	ASTM D 1586-18	S
		Split-Barrel Sampling of Soil	ASTM D 1586-18	
	Rock	Rock Sampling	ASTM D 2113-14	S
		Preparing and Transporting Rock Core Samples	ASTM D 5079-08	
	Ground Water	Groundwater Monitoring and Sampling	BS 5930:2015, Sec. 4, Cl. 26	S
	Rock	Determining Rock Quality Designation (RQD) of Rock Core	ASTM D 6032/ D6032M-17	P / S
	Soil	Description and Identification of Soil (Visual-Manual Procedure)	ASTM D2488-17e1	P / S



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Geotechnical	Soil	Determination of Liquid Limit, Plastic Limit and Plasticity Index of Soil	BS EN ISO 17892-12:2018, CL 5.4, 5.5 &6.6	P
	Rock	Preparing of Rock Core as Cylindrical Test Specimen and Verfyng Conformance to Dimensional and Shape Tolerances	ASTM D 4543-19	P
		Compressive Strength of Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperature (UCS)	ASTM D 7012-14ε1, Method C	
		Determining Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D 5731-16	
	Soil	Determination of Water (Moisture) Content of Soil by Mass	BS 1377-2:1990, Cl.3.2/ BS EN ISO 17892-1:2014	P
		Determination of Particle Size Distribution of Soil (Wet and Dry Sieving Methods)	BS EN ISO 17892-4:2016, Cl. 5.2	
		Determination of Particle Size Distribution using Sedimentation by the Hydrometer Method	BS EN ISO 17892-4:2016, Cl. 5.3	
	Soil & Rock	Determination of Water (moisture) Content of Soil & Rock by Mass	ASTM D 2216-19	P
	Soil	Determination of Water Soluble Sulphate Content of Soil	BS 1377-3: 2018 +A1: 2021 Clause 7.2,7.3/7.6	P
		Determination of Water Soluble Chloride Content of Soil	BS 1377-3: 2018 +A1: 2021 Clause 9.2	
		Determination of pH Value of Soil	BS 1377-3: 2018+A1: 2021 Clause 12	



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Geotechnical	Soil	Determination of Acid Soluble Sulphate Content of Soil	BS 1377-3: 2018 +A1: 2021 Clause 7.2; 7.9/7.6	P
		Determination of Acid Soluble Chloride Content of Soil	BS 1377-3: 2018 +A1: 2021 Clause 9.3	
	Groundwater	Determination of Sulphate Content of Groundwater	BS 1377-3: 2018 +A1: 2021 Clause 7.2; 7.8/7.6	P
		Determination of Chloride Content of Groundwater	BS 1377-3: 2018 + A1: 2021 Clause 9.2	
		Determination of pH Value of Groundwater	BS 1377-3: 2018+A1: 2021 Clause 12	
NA	Reporting	BS 5930:2015, Sec. 10	P	
Geophysical	Soil	MASW Streamer equipment	ASTM D577/D6429/MASW/All equipment	S
		Acquisition procedures on the site		
		Data Processing Software		
<b>END</b>				