

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: 17-09-2021

Expiry Date: 11-07-2023

Issue No: 09

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	P
		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			

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Physical	Soil	Determination of California Bearing Ratio (CBR)	BS 1377-4:1990, Cl.7, Amd. 13925-02	P
		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 ³ (2,700 kN-m/m ³)) ¹	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	

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Geotechnical	Soil	Description and Identification of Soil (Visual-Manual Procedure)	ASTM D2488-17e1	P / S
		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 Verfying 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 7012-14 ^{ε1} , Method C	
		Determining Point Load Strength Index of Rock and Application to Rock Strenth 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

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Chemical	Soil	Determination of Water Soluble Sulphate Content of Soil	BS 1377-3:2018 Cl.7.2, 7.3 & 7.6	P
		Determination of Water Soluble Chloride Content of Soil	BS 1377-3:2018 Cl. 9.2	
		Determination of pH Value of Soil	BS 1377-3:2018 Cl. 12	
		Determination of Acid Soluble Sulphate Content of Soil	BS 1377-3:2018 Cl.7.2, 7.6 & 7.9	
		Determination of Acid Soluble Chloride Content of Soil	BS 1377-3:2018 Cl. 9.3	
	Groundwater	Determination of Sulphate Content of Groundwater	BS 1377-3:2018 Cl. 7.2, 7.6,7.8	P
		Determination of Chloride Content of Groundwater	BS 1377-3:2018 Cl. 9.2	
		Determination of pH Value of Groundwater	BS 1377-3:2018 Cl. 12	
	Geotechnical	NA	Reporting	BS 5930:2015, Sec. 10
END				