



Accreditation Scope

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

Mussafah South, Abu Dhabi, UAE

Issue Date: 21-01-2022

Expiry Date: 20-01-2025

Issue No: 01

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	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 1377-9:1990 – AMD 8264:1995; Cl. 3.3 BS 5930:2015	S
	Soil	Soil Sampling	BS 5930:2015; Sec. 4, Cl. 25.6	S
		Description of Soils	BS 5930:2015; Sec. 6, Cl. 33	S/P
	Ground Water	Groundwater Sampling	BS 5930:2015; Sec. 4, Cl. 26.4	S
		Groundwater Measurements	BS 5930:2015; Sec. 4, Cl. 26.1 to 26.3 & Sec. 8, Cl. 52.3	S
	Rock	Rock Sampling Rock Core Recovery (RCR)	BS 5930:2015; Sec. 4, Cl. 25.7	S
		Description of Rocks	BS 5930:2015; Sec. 6, Cl. 36	S/P
		Rock Quality Designation (RQD)	BS 5930:2015; Sec. 6, Cl. 36.4	S/P
		Preparation of rock Core	ASTM D4543:08 19	P
		Unconfined Compressive Strength	ASTM D 7012:2014E1, Method C	
		Determination of Water (Moisture) Content of soil & Rock sample	ASTM D2216:19	
	Soil	Particle Size Distribution Sieving Method	BS EN ISO 17892-4:2016; Cl. 4.2,5.2 & 6	P
		Particle Size Distribution Hydrometer Method	BS EN ISO 17892-4:2016; Cl. 4.3, 5.3 & 6.2	
		Liquid Limit, Plastic Limit and Plasticity Index, Casagrande method	BS EN ISO 17892-12:2018; Cl. 5.4 & 5.5, 6.3, 6.4 & 6.5	



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Geotechnical	Soil	Determination of water content of Soil	BS EN ISO 17892-1:2014	P
		Determination of Water (Moisture) Content of soil sample	BS 1377-2:1990; Cl. 3.2 AMD 9027-1996	
	Report	Reporting	BS 5930:2015; Cl. 63 Sec. 10	
Physical	Construction Materials	Dry Density/ Moisture Content Relationship Using 4.5Kg rammer for coarse and medium gravel size particles)	BS 1377-4:1990; AMD. 13925-2002; Cl. 3.5 & 3.6	P
		Determination of California Bearing Ratio (CBR)	BS 1377-4:1990; AMD. 13925 - 02; Cl. 7.0	P
		Determination of Water (Moisture) Content of soil sample	BS 1377-2:1990; AMD. 9027-1996; Cl. 3.2	P
Chemical	Soil	Acid Soluble Sulphate Content of Soil -	BS 1377-3:2018; Cl. 7.2, 7.9 & 7.6	P
		Water Soluble Sulphate Content of Soil	BS 1377-3:2018; Cl. 7.2, 7.3 & 7.6	P
		Sulphate Content of Ground Water	BS 1377-3:2018; Cl. 7.2, 7.8 & 7.6	P
		Acid Soluble Chloride Content of Soil	BS 1377-3:2018; Cl. 9.3	P
		pH of Soil	BS 1377-3:2018; Cl. 12	P
		Water Soluble Chloride Content of Soil	BS 1377-3:2018; Cl. 9.2	P
		pH of Ground Water	BS 1377-3:2018; Cl. 12	P
		Chloride Content of Ground Water	BS 1377-3:2018; Cl. 9.2	P
END				