



# ACCREDITATION CERTIFICATE

**LB-TEST-001**

**Emirates International Accreditation Centre**

has accredited

**AL HOTY STANGER LABORATORY L.L.C**

Building 21 | Al Quoz Ind Area 3 | Street 8

Dubai | United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 13-05-2026 to 12-11-2026

Initial Accreditation Date: 13-05-2002



*Amina Ahmed Mohammed*  
CHIEF EXECUTIVE OFFICER



## Accreditation Scope

### LB-TEST-001

## Al Hoty Stanger Laboratory L.L.C

Building 21 | Al Quoz Ind Area 3 | Street 8

Dubai | United Arab Emirates

Date: 13-05-2026

Accreditation History		
Issue no.	Details	Date

#### Environmental Testing

13	Certificate validity has been extended for 6 months from 13-05-2026 up to 12-11-2026	13-05-2026
12	Reissued due to some changes in test methods and voluntary reduction in scope	06-01-2025
11	Renewal of the accreditation and extension in scope	13-05-2023
10	Extension in scope (Add: Chemical -Water/wastewater- Molybdenum (Mo), Total Heavy Metals/ Microbiology: Aerobic Colony Count)	10-08-2022
09	Reduction in scope (remove CCFRA manual reference for microbiology and chemistry testing)	16-02-2022
08	Voluntary reduction in scope (remove Microbiology tests for Enumeration of Faecal Streptococcus & Enumeration of Pseudomonas aeruginosa) and revise the laboratory's name as per its license	03-11-2020
07	Renewal accreditation, extension in scope and first issuance under the name of EIAC (which was formerly known as DAC)	06-10-2020

## Accreditation Scope

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## Al Hoty Stanger Laboratory L.L.C

Building 21 | Al Quoz Ind Area 3 | Street 8

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Date: 13-05-2026

Accreditation History		
Issue no.	Details	Date

#### Air Quality Monitoring Testing

09	Certificate validity has been extended for 6 months from 13-05-2026 up to 12-11-2026	13-05-2026
08	Reissued due to some changes in test methods	06-01-2025
07	Renewal of the accreditation and Voluntary reduction in scope (remove Ethylene (C <sub>2</sub> H <sub>4</sub> ) test)	13-05-2023
06	Extension is scope (Add: Microbiology- Air: Total Bacterial Count, Detection and Enumeration of Yeast & Mold/ Sampling-Sampling of Air Samples)	10-08-2022
05	Reduction in scope (remove CCFRA manual reference for microbiology and chemistry testing)	16-02-2022
04	Revise the laboratory's name as per its license	03-11-2020
03	Renewal accreditation and first issuance under the name of Eiac (which was formerly known as DAC)	06-10-2020

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Building 21 | Al Quoz Ind Area 3 | Street 8

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Date: 13-05-2026

Accreditation History		
Issue no.	Details	Date

#### Construction Materials Testing

11	Certificate validity has been extended for 6 months from 13-05-2026 up to 12-11-2026	13-05-2026
10	Reissued due to some changes in test methods and voluntary reduction in scope	06-01-2025
09	Renewal of the accereditation	13-05-2023
08	Reduction in one test in Aggregate and extension in scope (Add: Chemical Tests in Soil and Aggregate (Acid soluble Sulphate, Acid soluble Chloride))	10-08-2022
07	Revise the laboratory's name as per its license	03-11-2020
06	Renewal accreditation, extension in scope and first issuance under the name of EIAC (which was formerly known as DAC)	06-10-2020

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## Al Hoty Stanger Laboratory L.L.C

Building 21 | Al Quoz Ind Area 3 | Street 8

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Date: 13-05-2026

Accreditation History		
Issue no.	Details	Date

#### Geotechnical Investigation

04	Certificate validity has been extended for 6 months from 13-05-2026 up to 12-11-2026	13-05-2026
03	Reissued due to some changes in test methods	06-01-2025
02	Renewal of the accreditation and reduction in scope (remove Code of practice for ground Investigations Section 4: Exploratory holes Clause 26.3: Observations in installations)	13-05-2023
01	Move Geotechnical Investigation from Al Hoty Stanger Laboratories-Abu Dhabi to Dubai branch	10-08-2022

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Issue no.: 13

Date: 13-05-2026

Valid to: 12-11-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water/ Waste Water	PH	APHA 4500 H <sup>+</sup> B
		Total Suspended Solids	APHA 2540 D
		Total Dissolved Solids	APHA 2540 C
		Oil and Grease	APHA 5520 B
		Biological Oxygen Demand-5 days	APHA 5210 B
		Chemical Oxygen Demand	APHA 5220 B
		Ammonia/ Ammonia Nitrogen	HACH 8038
		Turbidity	APHA 2130-B
		Sulphide	HACH 8131
		Total Hardness (LOQ= 1.0 mg/L)	APHA 2340 B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water/ Waste Water	Total Kjeldahl Nitrogen (TKN) (LOQ= 0.5 mg/L)	APHA 4500-Norg B.
		Phosphorous / Phosphate (LOQ= 0.01 mg/L)	APHA 3120 B/Calculation
		Phosphorous / Phosphate (LOQ= 0.02 / 0.06 mg/L)	HACH 8048
		Phosphorous / Phosphate (LOQ= 0.30 / 0.90 mg/L)	HACH 8114
		Silica (SiO <sub>2</sub> ) (LOQ= 0.01 mg/L)	APHA 3120 B/Calculation
		Silica (SiO <sub>2</sub> ) (LOQ= 0.01 / 1.0 mg/L)	HACH 8186 / HACH 8185
		Calcium Hardness (LOQ= 1.0 mg/L)	APHA 3500 Ca B / APHA 2340 B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water/ Waste Water	Aluminium	APHA 3120 B
		Barium	
		Berilyum	
		Boron	
		Molybdenum (Mo)	
	Water	pH	APHA 4500 H <sup>+</sup> B
		Electrical Conductivity at 25 °C	APHA 2510 B
		Chloride	APHA 4500 Cl <sup>-</sup> B
		Sulphate	APHA 4500- SO <sub>4</sub> <sup>2-</sup> C and HACH 8051

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Nitrate-N	HACH 8171 Adapted method of APHA 4500 NO3 - E
		Flouride	HACH 8029
		Free Chlorine	HACH method 8021
		Calcium	APHA 3120 B APHA 3500-Ca B
		Magnesium	APHA 3120 B APHA 3500-Mg B
		Total Hardness as Caco <sub>3</sub>	APHA 2340 C
		Bicarbonate	APHA 2320 B
		Total Alkalinity	
		Sodium	
		Potassium	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Iron	APHA 2320 B
		Copper	
		Manganese	
		Cadmium	
		Zinc	
		Nickel	
		Lead	
		Chromium	
		Silver	
		Cobalt	
Arsenic			

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Mercury	APHA 3120 B
		Selenium	
		Tin (Sn)	
		Vanadium (V)	
		Sodium (Na)	
		Potassium (K)	
		Calcium (Ca)	
		Magnesium (Mg)	
		Nitrite	HACH 8507
		Chlorine dioxide	HACH 10126
Cyanuric Acid	HACH 8139		

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soils and Waste	pH at 25 °C	US EPA SW846, 9045 D
	Solid/ Semisolid samples	Total, Fixed and Volatile solids in Solid and Semisolid samples	APHA 2540 G
		Moisture content	Calculation
	Sediment/ Soil/ sludge/ wastewater	Metals: Cd, Cr, Cu, Co, Pb, Ni, Zn, As, Mn, Fe, Ag, AS, Se and Hg	EPA 3050 B, and APHA- AWWA 3120 B
	Sludge/Sediment/ Contaminated material	Tin	EPA 3050 B, and APHA- AWWA 3120 B
	Sludge Samples	Oil and Grease	APHA 5520 E
	Waste materials	Water content	In-house method SOP # 29
		Flash point (Qualitative Analysis (Flammable/ non-Flammable))	In-house method SOP # 30

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Waste water	Sulphate	APHA 4500 SO <sub>4</sub> <sup>2-</sup> C
	Waste Water	Free Oil and Grease	In-house method IHTP # 28
		Tin (Sn) (LOQ= 0.01 mg/L)	APHA 3120B/ APHA 3030F
		Vanadium (V) (LOQ= 0.01 mg/L)	
		Sodium (Na) (LOQ= 0.1 mg/L)	
		Potassium (K) (LOQ= 0.1 mg/L)	
		Calcium (Ca) (LOQ= 0.1 mg/L)	
Magnesium (Mg) (LOQ= 0.1 mg/L)			
Microbiology	Potable Water, Pool Water, Ice, Water feature, Bottled Water,	Heterotrophic Plate Count	APHA 9215B 24th Edition, and CMMEF 60.42
	Raw water, Sea water, Fire water	Enumeration of Total Coliforms	APHA 9222B 24th Edition

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Potable Water, Pool Water, Ice, Water feature, Bottled Water, Raw water, Sea water, Fire water	Enumeration of Faecal Coliforms	APHA 9221 E.1 24th Edition
		Enumeration of E.coli	APHA 9222B 24th Edition
		Enumeration of Pseudomonas aeruginosa	BS EN ISO 16266
		Enumeration of Faecal Streptococci (Enterococci)	APHA 9230C 24th Edition
	Waste Water	Enumeration of Total Coliforms	APHA 9221B 4th Edition
		Enumeration of Faecal Coliforms	APHA 9221E 24th Edition
		Enumeration of E.coli	APHA 9221F 24th Edition

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Domestic, Potable Water, Recreational Water	Detection and Enumeration of Legionella spp.	ISO 11731 Matrix A Procedure 5, 6, 7 Matrix B Procedure 8, 9, 10
		Enumeration of Total Coliforms and E.coli	IDEXX Colilert APHA 9223 B 24th Edition
		Enumeration of Faecal Coliforms	IDEXX Colilert APHA 9223 B 24th Edition
	Water and Ice	Enumeration of Clostridium perfringens	ISO 14189
	Water/Waste Water/Ice	Aerobic Colony Count	ISO 6222

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Sampling	Sampling for Legionella bacteria in water systems Section 2. Routine Sampling	BS 7592
		Sampling of water	APHA 9060A 24th Edition
		Sampling of Ice	APHA 9060A 24th Edition
		Sampling of Swimming Pool	APHA 9213B 24th Edition
Sampling	Waste water	Method for Sampling	SOP#CHEM-009 Based on SMEWW/APHA Dubai Municipality

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Workplace atmospheres. Size fraction definitions for measurement of airborne particles Total Suspended Particulate Matter (TSPM) Respirable Suspended Particulate Matter (RSPM-PM10,2.5 & 1)	In-house validated method SOP AQ-003
		Nitrogen Dioxide (NO2)	In-house validated method SOP AQ-002
		Sulphur Dioxide (SO2)	In-house validated method SOP AQ-002
		Volatile Organic Compound (VOC)	In-house validated method SOP AQ-002
		Formaldehyde (HCOH)	In-house validated method SOP AQ-002

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Methane (CH <sub>4</sub> )	In-house validated method SOP AQ-002
		Carbon monoxide (CO)	In-house validated method SOP AQ-002
		Carbon Dioxide (CO <sub>2</sub> )	In-house validated method SOP AQ-002
		Hydrogen Sulphide (H <sub>2</sub> S)	In-house validated method SOP AQ-002
		Personal dust exposure	In-house validated method SOP AQ-002
		Oxygen (O <sub>2</sub> )	In-house validated method SOP AQ-002
		Temperature	In-house validated method SOP AQ-002
		Relative Humidity	In-house validated method SOP AQ-002

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Indoor Air Quality	Ozone (O3)	In-house validated method SOP AQ-002
		Ammonia (NH3)	In-house validated method SOP AQ-002
	Flue Gas Emission	Carbon monoxide (CO)	In-house validated method AHSL SOP SET 001
		Oxides of Nitrogen (NOx)	In-house validated method AHSL SOP SET 001
		Oxygen (O <sub>2</sub> )	In-house validated method AHSL SOP SET 001
		Carbon Dioxide (CO <sub>2</sub> )	In-house validated method AHSL SOP SET 001
		Sulphur Dioxide (SO <sub>2</sub> )	In-house validated method AHSL SOP SET 001

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Stack Emission	Total Suspended Particles (TSP)	US-EPA EMC Method 17
		Carbon Dioxide (CO <sub>2</sub> )	In-house validated method AHSL SOP SET 001
		Carbon monoxide (CO)	In-house validated method AHSL SOP SET 001
		Oxides of Nitrogen (NO <sub>x</sub> )	In-house validated method AHSL SOP SET 001
		Oxygen (O <sub>2</sub> )	In-house validated method AHSL SOP SET 001
		Sulphur Dioxide (SO <sub>2</sub> )	In-house validated method AHSL SOP SET 001
		Moisture content	USEPA EMC Method 4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Outdoor Air Quality	Sulphur Dioxide (SO <sub>2</sub> )	In-house validated method SOP AQ-002
		Nitrogen Dioxide (NO <sub>2</sub> )	In-house validated method SOP AQ-002
		Volatile Organic Compound (VOCs)	In-house validated method SOP AQ-002
		Ozone (O <sub>3</sub> )	In-house validated method SOP AQ-002
		Ammonia (NH <sub>3</sub> )	In-house validated method SOP AQ-002
		Carbon monoxide (CO)	In-house validated method SOP AQ-002
		Carbon Dioxide (CO <sub>2</sub> )	In-house validated method SOP AQ-002
		Hydrogen Sulphide (H <sub>2</sub> S)	In-house validated method SOP AQ-002

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Indoor Air Quality / Ambient Atmosphere	Clean rooms and associated controlled environments Part 1: Classification of air cleanliness by particle concentration Reparable Suspended Particulate Matter RSPM (PM 0.3, 0.5, 1.0, 2.5, 5, 10)	ISO 14644-1
	Outdoor Air Quality	Total Suspended Particulate Matter (TSPM)	AHSL SOP AQ 001
		Respirable Suspended Matter RSPM (10,2.5,1)	AHSL SOP AQ 001

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Noise	Acoustics - Description, measurement and assessment of environmental noise Part 2: Determination of environmental noise levels	ISO 1996-2
		Acoustics -Determination of occupational noise exposure - Engineering method	ISO 9612
Microbiology	Air	Total Bacterial Count	ISO 14698-1
		Detection and Enumeration of Yeast & Mold	
		Sampling of Air Samples	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Testing aggregates Part 110: Methods for determination of Aggregate crushing value (ACV)	BS 812 Part 110
		Testing aggregates Part 105: Methods for determination of particle shape section 105.1: Flakiness index	BS 812 Part 105 Section 105.1
		Testing aggregates Part 105: Methods for determination of particle shape section 105.2: Elongation index of coarse aggregate	BS 812 Part 105 Section 105.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Testing of aggregates Part 2: Methods for determination of density (Determination of particle densities and water absorption)	BS 812 Part 2, Test 5.3, 5.4, & 5.5
		Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142
		Testing aggregates Part 112: Method for determination of Aggregate Impact Value (AIV)	BS 812 Part 112

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Testing aggregates Part 103: Method of determination of particle size distribution Sieve test(wet & dry sieving)	BS 812 Part 103, Section 103.1 Clause 7.2 & 7.3
		Testing aggregates Part 106: Method for determination of shell content in coarse aggregate	BS 812 Part 106
		Testing aggregates Part 111: Method for Determination of Ten Per Cent Fines Value (TFV) (dry and soaked)	BS 812 Part 111 Test 7.1 & 7.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Standard Test Method for Materials Finer than 75µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117
		Standard test method for Resistance to degradation of small - size coarse aggregate by abrasion and impact in the Los Angeles machine	ASTM C131
		Standard test Method for Sieve Analysis of Fine and Coarse Aggregates	ASTM C136

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Standard Test Method for Soundness of Aggregates by use of Sodium Sulphate or Magnesium Sulfate	ASTM C88
		Standard test method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate	ASTM C128
		Standard test method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Concrete	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116
		Testing of concrete Part 208: Recommendations for the determination of the initial surface absorption of concrete	BS 1881 Part 208
		Testing concrete Part 112: Determination of water absorption on hardened concrete	BS 1881 Part 122

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Concrete	Determination of water permeability	DIN 1048 Part 5
		Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	BS 1881 Part 111
		Testing concrete Part 114: Methods for determination of density of hardened concrete	BS 1881 Part 114
	Steel	Carbon Steel Bar for the reinforcement of concrete (Steel Bend test)	BS 4449 Appendix C, Clause C.1.6.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Steel	Steel for the reinforcement and pre-stressing of concrete. Test methods. Reinforcing bars, wire rod and wire (Tensile properties)	BS 4449 Clause 7.2.3, and BS EN 15630 - 1 Clause 5
		Steel for the reinforcement and pre-stressing of concrete. Test methods. Reinforcing bars, wire rod and wire (Bend Performance) Steel for the reinforcement and prestressing of concrete test methods Part 1: Reinforcing bars, wire rod and wire (Bend test)	BS 4449 Clause 7.2.5 + A2, and BS EN 15630-1 Clause 6

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes Part 4: Compaction-related tests (Determination of California bearing ratio)	BS 1377 Part 4 Clause 7.2.3 BS 1377 Part 2 Clause 15
		Methods of test for soils for civil engineering purposes Part 9: In-situ tests (Sand replacement method suitable for fine, medium and coarse grained soils (large and small pouring cylinder method)	BS 1377 Part 9 Clause 2.1 & 2.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes Part 4: Compaction-related tests (Determination of dry density / moisture content relationship)	BS 1377 Part 4 Clause 3.5 and 3.6 BS 1377 Part 2 Clause 11
		Methods of tesst for soils for civil engineering purposes Part 2: Classification tests (Determination of liquid limit)	BS 1377 Part 2 Clause 4.3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification, tests (Determination of plastic limit and plasticity index)	BS 1377 Part 2 Clause 5.3 & 5.4
		Standard Test Method for Sand equivalent value of soils and fine aggregate	ASTM D2419

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Standard Test Method for Nonrepetitive Static Plate Load Test of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements	ASTM D1196 / D1195M
		Methods of test for soils for civil engineering purposes Part 2: Classification tests (Determination of particle size distribution)	BS 1377 Part 2 Clause 9.2 & 9.3 BS 1377 Part 2 Clause 10 BS EN ISO 17894 Part 4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes. Part 9: In Situ penetration test- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377- 9:1990 Cl 3.3
		Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 33: Description of soils	BS 5930 Section 6 Clause 33

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for Soils for civil Engineering purposes Part 2: Classification tests Clause no. 9: Determination of particle size distribution • Wet sieving method• Dry sieving method	BS 1377 Part 2 Clause 9.2 & 9.3
		Methods of test for Soils for civil Engineering purposes Part 2: Classification tests Determination of moisture content	BS 1377 Part 2 Clause 3.1 BS 1377 Part 2 Clause 4 BS EN ISO 17892 Part 1+A1:2022 Clause 5.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil/ Rock	Code of practice for ground Investigations Section 4: Exploratory holes Clause 26.3: Observations in installations	BS 5930 Section 4 Clause 26.3
		Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 36: Description and classification of rocks	BS 5930 Section 6 Clause 36

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil/Rock	Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 36: Description and classification of rocks	BS 5930 Section 6 Clause 36
		Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Ground Water	Code of practice for ground Investigations Section 8: Field instrumentation Clause 52: Groundwater measurements	BS 5930 Section 8 Clause 52
		Code of practice for ground Investigations Section 4: Exploratory holes Clause 26.4: Groundwater sampling	BS 5930 Section 4 Clause 26.4
	Reporting	Code of practice for ground Investigations Section 10: Reports and interpretation Clause 63: Reports	BS 5930 Section 10 Clause 63

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Rock	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012
		Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Rock	Code of practice for ground investigations – Rotary core drilling	BS 5930 Clause 24.11
	Steel	Manhole cover and frame - load test	BS EN 124-1 2015
Chemical	Concrete	Testing Concrete Part 124: Method for analysis of hardened concrete (Determination of chloride content in hardened concrete)	BS 1881 124 Clause 12.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Concrete	Testing Concrete Part 124: Methods for analysis of hardened concrete (Determination of Sulphate content in hardened Concrete)	BS 1881 124 Clause 12.2
		Testing concrete Part 124: Methods for analysis of hardened concrete (Determination of Chloride content in hardened concrete)	BS 1881 124 Clause 10.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Concrete	Testing concrete Part 124: Methods for analysis of hardened concrete (Determination of Sulphate content in hardened concrete)	BS 1881 124 Clause 10.3
	Soil	"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests Determination of the pH value."	BS 1377 Part 3 Clause 12
		"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the sulphate content."	BS 1377 Part 3 Clause 7.6/7.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the sulphate content." Determination of the chloride content."	BS 1377 Part 3 Clause 9.2
		"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the chloride content- Determination of water-soluble chloride content."	BS 1377 Part 3 Clause 9.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the sulphate content of soil Preparation of soil and its water extract."	BS 1377 Part 3 Clause 7.3/7.6
		"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the pH value."	BS 1377 Part 3 Clause 12

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the chloride content- Determination of acid-soluble chloride content."	BS 1377 Part 3 Clause 9.3
		"Methods of test for Soils for civil Engineering purposes Part 3: Chemical and electro-chemical Tests. Determination of the sulphate content of soil. • Preparation of soil and its acid extract."	BS 1377 Part 3 Clause 7.6/7.9

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Aggregate	Testing aggregates Part 117: Method for determination of water-soluble chloride	BS 812 Part 117
		Testing aggregates — Part 118: Methods for determination of sulphate content	BS 812 Part 118
		Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M
		Acid soluble Sulphate	BS EN 1744 -1, M12:2009+A1:2012
		Acid soluble Chloride	BS EN 1744-5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes. Part 9: In Situ penetration test- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377- 9 Cl 3.3
		Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 33 & 36: Description of soils and rocks	BS 5930 Section 6 Clause 33 & Clause 36

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Date: 13-05-2026

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Ground Water	Code of practice for ground Investigations Section 8: Field instrumentation Clause 52: Groundwater measurements	BS 5930 Section 8 Clause 52
		Code of practice for ground Investigations Section 4: Exploratory holes Clause 26.4: Groundwater sampling	BS 5930 Section 4 Clause 26.4
	Soil/Rock	Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 36: Description and classification of rocks	BS 5930 Section 6 Clause 36

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Reporting	Code of practice for ground Investigations Section 10: Reports and interpretation Clause 63: Reports	BS 5930 Section 10 Clause 63
	Soil/Rock	Code of practice for ground Investigations Section 6: Description of soils and rocks Clause 36: Description and classification of rocks mass- Core Recovery	BS 5930 Section 6 Clause 36
		Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Rock	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012
		Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543
		Code of practice for ground investigations – Rotary core drilling	BS 5930 Clause 24.11