

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
<b>Physical / Mechanical</b>	<b>Aggregate</b>	- Testing aggregates Method for determination of Acid-soluble chloride salts	BS 812 Part 117 Appendix - C BS EN 1744 Part 5
		- Tests for Chemical Properties of Aggregate Part 5 : Determination of Acid Soluble Chloride Salts	
		- Testing aggregates Methods for determination of Sulfate content - Tests for chemical properties of aggregates Part 1: Chemical analysis	BS 812 Part 118 :M6 BS EN 1744 Part 1
		Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C40
		Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
<b>Physical / Mechanical</b>	<b>Aggregate</b>	Testing aggregates. Methods for determination of aggregate crushing value (ACV)	BS 812 Part 110
		Testing aggregates Method for determination of Aggregate Impact Value (AIV)	BS 812: Part 112 AMD 8772-95
		Testing aggregates Part 105: Methods for determination of particle shape. Elongation index of coarse aggregate	BS 812 Part 105 sec 105.2
		Testing aggregates Part 105: Methods for determination of particle shape. Flakiness index	BS 812 Part 105 sec 105.1
		Testing aggregates Methods for determination of density. Determination of particle densities and water absorption of coarse and fine aggregates	BS 812 part 2 test 5.3, 5.4,& 5.5 AMND 9195 -1996

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
<b>Physical / Mechanical</b>	<b>Aggregate</b>	Testing aggregates. Method for determination of particle size distribution. Sieve tests	BS 812 Part 103 Sec. 103.1  Test 7.2 & 7.3 AMD 6003-1989
		Testing aggregates Part 106: Method for determination of shell content in coarse aggregate	BS 812 Part 106
		Testing aggregates Part 111: Methods for Determination of Ten Percent Fines Value (TFV)	BS 812 Part 111 Test 7.1 & 7.2.
		Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Aggregate	- Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131 ASTM C535
		- Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	
		Standard Test Method for Sand equivalent value of soils and fine aggregate	ASTM D2419
		Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	ASTM C136
		Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Aggregate	Standard Test Method for 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
	Concrete	Testing concrete Methods for analysis of hardened concrete (Determination of Chloride content in hardened concrete)	BS 1881 Part 124 Clause 10.2
		Testing concrete Methods for analysis of hardened concrete (Determination of Sulphate content in hardened concrete)	BS 1881 Part 124 Clause 10.3

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Soil	Methods of test for Soils for civil engineering purposes Part 4: Compaction-related tests. Determination of the California Bearing Ratio (CBR)	BS 1377 Part 4 Test 7.2.3.2 AMD 8259-9
		Methods of test for Soils for civil engineering purposes Part 4: Compaction-related tests. Determination of dry density/moisture content relationship: - Method using 4.5 kg rammer for soils with particles up to medium-gravel size - Method using 4.5 kg rammer for soils with some coarse gravel-size particles	BS 1377 Part 4 Test 3.5 & 3.6 AMD 8259-95

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Soil	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 AMD 8264-95
		Methods of test for Soils for civil engineering purposes Part 2: Classification tests Determination of particle size distribution- Wet sieving method & Dry Sieving Method	BS 1377 Part 2 clause 9.2 & 9.3 AMD 9027-96

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Soil	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Determination of the liquid limit Determination of the plastic limit and plasticity index: - Method for plastic limit - Derivation of plasticity index and liquidity index	BS 1377 Part 2 clause 4, 5.3 and 5.4 AMD 9027-96
		Methods of test for Soils for civil engineering purposes Part 2: Classification tests Linear shrinkage	BS 1377 Part 2:6.5
		Standard Test Method for Non repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements	ASTM D1196/ D1196 M



**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
<b>Physical / Mechanical</b>	<b>Hardened concrete</b>	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116 AMD 6097-89 & AMD 6720-91
		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
		Testing hardened concrete Part 8: Depth of penetration of water under pressure	BS EN 12390 Part 8
		Determination of water permeability	DIN 1048 Part 5
		Testing concrete Part 122: Method for determination of water absorption	BS 1881 Part 122 AMD 6108-89

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Hardened concrete	Testing concrete Part 208: Recommendations for the determination of the initial surface absorption of concrete	BS 1881 Part 208
		Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202
	Rock	Determination of Particle Density and Water Absorption	BS EN 13383 Part 2
		Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications Suggested method for determining Point Load Strength	ASTM D5731 ISRM 1985

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Rock	Tests for mechanical and physical properties of aggregates Part 2: Methods for the determination of resistance to fragmentation	BS EN 1097 Part 2
		Tests for thermal and weathering properties of aggregates Part 2: Magnesium sulfate test	BS EN 1367 Part 2
		Tests for geometrical properties of aggregates. Assessment of fines. Methylene blue test	BS EN 933-9 + A1
		Determination of Block Integrity/Determination of drop test breakage index	The Rock Manual, CIRIA C683 BS EN 13383-1
		Determination of mass distribution of light and heavy grading	The Rock Manual, CIRIA C683 BS EN 13383-2
		Determination of length to thickness ratio	BS EN 13383-2

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
<b>Physical / Mechanical</b>	<b>Steel</b>	Steel for the reinforcement and pre-stressing of concrete. Test methods. Reinforcing bars, wire rod and wire (Tensile properties)	BS EN ISO 15630 Part 1
		Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Bend test	BS 4449

**Accreditation Scope**  
**Construction Materials Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 04**

**Date: 18-06-2020**

**Valid to: 12-04-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Steel	Steel for the reinforcement and pre-stressing of concrete. Test methods. Reinforcing bars, wire rod and wire Re-bend of steel rebars	BS EN ISO 15630 Part 1

Accreditation History		
Issue no.	Details	Date
04	Renewal accreditation and comply with ISO/ IEC 17025:2017	6/18/2020
03	Reduction in scope and first issuance under the name of EIAC (which formally was known as DAC)	7/4/2019

**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swab	Aerobic plate count	USFDA BAM Chapter 3
		Enumeration of Coliforms	Colony count CCFRA 2.2.1 & CMMEF 9.71
		Enumeration of faecal Coliforms	MPN CMMEF 9.81
		Enumeration of Staphylococcus aureus	USFDA BAM Chapter 12
		Detection of E.coli O157 H7	AOAC 2000.14 Reveal test kit Neogen Corporation
		Detection of Listeria spp.	Reveal test kit Neogen Corporation
	Domestic & Potable Water	Aerobic Plate Count	CCFRA 1.1.4, 2007
	Domestic, Potable Water, Recreational Water and Non-Potable Water	Heterotrophic Plate Count	APHA 9215B 23 <sup>rd</sup> Edition
		Enumeration of Coliforms	APHA 9221B & 9222B 23 <sup>rd</sup> Edition
		Enumeration of Faecal Coliforms	APHA 9221 E. 23 <sup>rd</sup> Edition
		Enumeration of E.coli	APHA 9222B & 9221F 23 <sup>rd</sup> Edition
		Enumeration of Pseudomonas aeruginosa	BS EN ISO 16266
		Enumeration of Faecal Streptococcus	APHA 9230C
		Detection and Enumeration of Legionella spp.	ISO 11731

**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swab & Waste Water	Detection and confirmation of Salmonella	CCFRA 3.1.2 & 3.1.5 cultural method
	Water • Matrix A: Water with low background • Matrix B: Water with high background • Matrix C: Water with extremely high background	Water Quality: Enumeration of Legionella	ISO 11731 Matrix A: Procedure 7 Matrix B: Procedures 8, 9, 10 Matrix C Procedures 4, 14
	Drinking Water	Heterotrophic Plate Count	CMMEF 60.42
Sampling	Water	Sampling for Legionella bacteria in water systems. Code of practice Section 2: Routine sampling	BS 7592 Section 2
	Domestic & potable water, waste water, pool water, ice, Recreational water and non-potable water	Sampling of water samples	APHA 9060A APHA 9213B 23 <sup>rd</sup> Edition
Chemical	Water	pH	APHA 4500 H+
		Conductivity	APHA 2510 B
		Total dissolved solids	APHA 2540 C

**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Total suspended solids	APHA 2540 D
		Total alkalinity	APHA 2320 B
		Total hardness	APHA 2340 B APHA 2340 C
		Calcium	APHA 3500-Ca B
		Magnesium	APHA 3500-Mg B
		Chloride	APHA 4500 Cl HACH 8113
		Sulfate	APHA 4500 So4 HACH 8051
		Metals and Toxic elements metals (ICP-OES)	APHA 3120 B
		Arsenic (LOQ=0.01 mg/L)	
		Cadmium ( LOQ=0.001 mg/L)	
		Calcium ( LOQ=0.1 mg/L)	
		Chromium ( LOQ=0.01 mg/L)	
		Copper ( LOQ=0.01 mg/L)	
Iron ( LOQ=0.02 mg/L)			



**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Lead ( LOQ=0.01 mg/L)	APHA 3120 B
		Magnesium ( LOQ=0.1 mg/L)	
		Manganese ( LOQ=0.01 mg/L)	
		Mercury ( LOQ=0.001 mg/L)	
		Potassium ( LOQ=0.1 mg/L)	
		Selenium ( LOQ=0.02 mg/L)	
		Sodium ( LOQ=0.1 mg/L)	
		Zinc ( LOQ=0.02 mg/L)	
	Wastewater	pH	APHA 4500 H+
		Total dissolved solids	APHA 2540 C
		Total suspended solids	APHA 2540 D
		BOD	APHA 5210 B
		COD	APHA 5220 B
		Oil and grease	APHA 5520 B
		Free oil and grease	In-House Test Method
Sulfate	HACH 8051		

**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Wastewater	Ammonia nitrogen	HACH 8038
		Sulfide	HACH 8131
		Metals and Toxic elements metals (ICP-OES)	APHA 3120 B
		Aluminium (LOQ=0.05 mg/L)	
		Arsenic (LOQ=0.05 mg/L)	
		Cadmium ( LOQ=0.01 mg/L)	
		Chromium ( LOQ=0.05 mg/L)	
		Cobalt ( LOQ=0.05 mg/L)	
		Copper ( LOQ=0.05 mg/L)	
		Iron ( LOQ=0.05 mg/L)	
		Lead ( LOQ=0.05 mg/L)	
		Manganese ( LOQ=0.05 mg/L)	
		Mercury ( LOQ=0.001 mg/L)	
Nickel (LOQ=0.05 mg/L)			

**Accreditation Scope**  
**Environmental Testing**  
**053-LB-TEST**

**Al Hoty Stanger**

**Al Kowartez Street, RAK Investment Authority Area**

**Ras Al khaimah-United Arab Emirates**

**Issue no.: 08**

**Date: 18-06-2020**

**Valid to: 12-04-2020**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Wastewater	Selenium ( LOQ=0.02 mg/L)	APHA 3120 B
		Silver (LOQ=0.05 mg/L)	
		Zinc ( LOQ=0.05 mg/L)	

Accreditation History		
Issue no.	Details	Date
08	Renewal accreditation and comply with ISO/ IEC 17025:2017	6/18/2020
07	Granting accreditation from EIAC (which formally was known as DAC)	7/4/2019

## Accreditation Scope

### Food Testing

### 053-LB-TEST

#### Al Hoty Stanger

Al Kowartez Street, RAK Investment Authority Area

Ras Al khaimah-United Arab Emirates

Issue no.: 06

Date: 18-06-2020

Valid to: 12-04-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Aerobic plate count	USFDA BAM Chapter 3
		Enumeration of coliforms	Colony count CCFRA 2.2.1 MPN CMMEF 8.71 Now 9.71 & 9.72 (confirmation)
		Enumeration of faecal coliforms	MPN CMMEF 8.81 Now 9.81
		Enumeration & Detection of E.coli	MPN CMMEF 8.91 & 8.92 Now 9.91 & 9.92 (confirmation)
		Enumeration of Staphylococcus aureus (coagulase positive)	BAM Chapter 12
		Detection of E.coli O157 H7	AOAC 2000.14 Reveal test kit Neogen Corporation
		Detection of Listeria spp.	Reveal test kit Neogene Corporation
		Detection and confirmation of Salmonella spp. Cultural	CCFRA 3.1.2 & 3.1.5 cultural method
		Anaerobic plate count SOP 12.1	CCFRA 1.1.1

## Accreditation Scope

### Food Testing

### 053-LB-TEST

#### Al Hoty Stanger

Al Kowartez Street, RAK Investment Authority Area

Ras Al khaimah-United Arab Emirates

Issue no.: 06

Date: 18-06-2020

Valid to: 12-04-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Enumeration of Enterobacteriaceae	CCFRA 2.3.1 colony count
		Enumeration of Bacillus cereus	CMMEF Chapter 31.6
		Enumeration of Yeast & Mould	CMMEF Chapter 21.5
		Detection and enumeration of Vibrio parahaemolyticus	CCFRA 3.8.2 2 & USFDA BAM Chapter 9
		Enumeration of Clostridium perfringens	CCFRA 3.6.1
	Food and Swab	Sampling of food and swab samples	Food Chapter 2 Swab CMMEF 3.812 APHA Chapter 3

Accreditation History		
Issue no.	Details	Date
06	Renewal accreditation and comply with ISO/ IEC 17025:2017	6/18/2020
05	First issuance under the name of Eiac (which formally was known as DAC)	7/4/2019