



# ACCREDITATION CERTIFICATE

**LB-TEST-030**

**Emirates International Accreditation Centre**

has accredited

**ADVANCED LABORATORY CENTER L.L.C**

Jebel Ali- Industrial Area 2

Dubai – United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2005**

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: 23/11/2020 to 16/07/2021

Initial Accreditation Date: 22/03/2009



CHIEF EXECUTIVE OFFICER  
APPROVAL



**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2

Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 9: Determination of pH value	BS 1377 Part 3 Clause 9 AMD 9028
		Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 5.4: Determination of the sulphate content of soil and ground water- Preparation of ground water for testing	BS 1377 Part 3 Clause 5.4 AMD 9028
Chemical	Water	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 7.2: Determination of water-soluble chloride content	BS 1377 Part 3 Clause 7.2 AMD 9028

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2

Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Aggregate	Testing aggregates Part 117: Method for determination of water-soluble chloride salts Clause 9.2: Determination of the Chloride Content of the Extracts	BS 812 Part 117 Clause: 9.2
		Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C40/ C40M
		Testing aggregates Part 118: Methods for determination of Sulfate content Clause 6: Determination of the total sulphate content by acid extraction	BS 812 Part 118 Clause: 6

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2

Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

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 Clause 7.2: Determination of water-soluble chloride content	BS 1377 Part 3 Clause 7.2 AMD 9028
		Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 9: Determination of pH value	BS 1377 Part 3 Clause 9 AMD 9028
		Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 5: Determination of the sulphate content of soil and ground water)	BS 1377 Part 3 Clause 5 AMD 9028

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

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 Clause 7.3: Determination of the chloride content- Determination of acid soluble chloride content	BS 1377 Part 3 Clause 7.3 AMD 9028
		Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 5.2: Determination of the sulphate content of soil and ground water- Preparation of soil and its acid extract)	BS 1377 Part 3 Clause 5.2 AMD 9028
	Steel	Standard Test Method for Analysis of Carbon& Low Alloy Steel By Spark Atomic Emission Spectrometry	ASTM E 415 :2017

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Hardened Concrete	Determination of Chloride content testing concrete-Part 124 Methods for analysis of hardened concrete	BS 1881-124:2015 CL 12.1
		Determination of Sulphate content testing concrete-Part 124 Methods for analysis of hardened concrete	BS 1881-124:2015 CL 12.2
Physical/ Mechanical	Hardened Concrete	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202
		Testing hardened concrete Part 8: Depth of penetration of water under pressure	BS EN ISO 12390- Part 8
		Testing concrete Part 122: Method for determination of water absorption	BS 1881 Part 122

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Hardened Concrete	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116
		Testing concrete Part 208: Recommendations for the determination of the initial surface absorption of concrete	BS 1881 Part 208
		Testing concrete Part 111: Method of normal curing of test specimens (20°C method) Clause 4: Procedure Testing concrete Methods for determination of density of hardened concrete	BS 1881 Part 111 Clause 4  BS 1881 Part 114

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

**Issue no.: 13**

**Date: 23-11-2020**

**Valid to: 16-07-2021**

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Steel bar	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Steel bend tests- Carbon Steel Bars for the reinforcement of Concrete	BS 4449 Appendix C Clause C.1.6.1
		Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Steel rebend tests- Carbon Steel Bars for the reinforcement of Concrete	BS 4449 Annex E Clause E.1.6



**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Steel bar	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification	BS 4449 Annex E Clause E.1.4
		Steel tensile strength test- Carbon Steel Bars for the reinforcement of Concrete	BS EN 10002-1
		Tensile testing of metallic materials	
		Part 1: Method of test at ambient temperature	
		Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification	BS 4449 Clause 7.2.3
		Clause 7.2.3: Tensile Properties	
		Steel for the reinforcement and pre-stressing of concrete. Test methods. Reinforcing bars, wire rod and wire (Tensile properties)	BS EN 15630 Clause 5

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Steel bar	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Clause 7.2.5: Bend Performance	BS 4449 Clause 7.2.5
		Steel for the reinforcement and pre-stressing of concrete - Test methods Part 1: Reinforcing bars, wire rod and wire Clause 06: Bend Test	BS EN 15630-1 Clause 6
Physical/ Mechanical	Steel bar	Carbon Steel Bars for the reinforcement of Concrete (Steel Re bend tests) Clause 7.2.5: Bend Performance	BS 4449 +A2 Clause 7.2.5
		Steel for the reinforcement and pre-stressing of concrete- Test methods Part 1: Reinforcing bars, wire rod and wire Clause 7: Re bend test	BS EN 15630-1 Clause 7

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Blocks	Precast concrete masonry units Part 1: Specification for precast concrete masonry units- Measurement of dimension	BS 6073 Part 1 Appendix A
		Precast concrete masonry units Part 2: Method for specifying precast concrete masonry units- Routine rapid control test of compressive strength	BS 6073 Part 2 Appendix B
		Precast concrete paving blocks Part 1: Specification for paving blocks- Determination of compressive strength	BS 6717 Part 1 Annex B
		Precast concrete paving blocks Part 1: Specification for paving blocks- Measurement of dimension and plan area	BS 6717 Part 1 Annex A

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Aggregate	Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate	ASTM C128
		Testing aggregates Part 103: Method for determination of particle size distribution. Sieve tests	BS 812 Part 103 Section: 103.1
		Testing aggregates Part 112: Method for determination of Aggregate Impact Value (AIV)	BS 812 Part 112
		Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127
		Testing aggregates. Methods for determination of aggregate crushing value (ACV)	BS 812 Part 110
		Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2

Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Aggregate	Testing aggregates. Methods for Determination of Ten Per Cent Fines Value (TFV)	BS 812 Part 111
		Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88
		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 Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535
		Testing aggregates. Methods for determination of particle shape. Flakiness index	BS 812 Part 105.1

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Aggregate	Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate	BS 812 Part 105.2
Physical/ Mechanical	Soil	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Clause 4.3: Determination of the liquid limit - Cone penetrometer method (definitive method)	BS 1377 Part 2 Clause 4.3
		Methods of test for soils for civil engineering purposes. Part 2: Classification tests Clause 5: Determination of the plastic limit and plasticity index	BS 1377 Part 2 Clause 5
		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 pouring cylinder method))	BS 1377 Par 9 Clause 2.2

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

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 Clause 3: 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 Clause 3.5 & Clause 3.6
		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 AMD 8259

**Accreditation Scope**  
**Construction Materials Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 13

Date: 23-11-2020

Valid to: 16-07-2021

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 particle size distribution- Wet sieving method & Dry Sieving Method	BS 1377 Part 2 Clause 9.2 & Clause 9.3
		Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419

Accreditation History		
Issue no.	Details	Date
13	Re-issued to comply with the new accreditation number format	23-11-2020
12	First issuance under the name of EIAC (which was formerly known as DAC)	07-09-2020



**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Soil Investigation	Methods of test for soils for civil engineering purposes Part 9: In-situ tests In Situ penetration test- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377 Part 9 Section 3.3
		Code of practice for site investigations Section 3: Field investigations- Soil Sampling: • Light cable percussion boring • Sampling the ground	BS 5930 Clause 20.5 and Clause 22

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Soil Investigation	Code of practice for site investigations Section 6: Description of soils and rocks- Soil Description <ul style="list-style-type: none"> <li>• Description of soils</li> <li>• Description and classification of rocks</li> </ul>	BS 5930 Section 41 & 44 Clark and Walker
	Ground Water	Code of practice for site investigations- Ground water level measurement <ul style="list-style-type: none"> <li>• Section 3: Field investigations- Methods of determining groundwater pressures</li> <li>• Section 4: Field tests- Observation wells</li> <li>• Section 7: Reports and interpretation- Descriptive report</li> </ul>	BS 5930 Clause 23.2 & 27.5 & 47.2.7

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Ground Water	Code of practice for site investigations Section 3: Field investigations- Groundwater samples	BS 5930 Clause 23.3
	Rock	Code of practice for site investigations Section 6: Description of soils and rocks- Description of rock masses- Rock quality designation	BS 5930 Clause 44.4.4
		Code of practice for site investigations Section 6: Description of soils and rocks- Description of rock masses- Core recovery	BS 5930 Clause 44.4.4

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Rock	Code of Practice for Site Investigations- Geotechnical Reporting Section 7: Reports and interpretation	BS 5930 Section 7
		Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012-14
		Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-08

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical / Mechanical	Rock	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D 2216-10

Accreditation History		
Issue no.	Details	Date
04	Re-issued to comply with the new accreditation number format	23-11-2020
03	First issuance under the name of EIAC (which was formerly known as DAC)	07-09-2020

**Accreditation Scope**  
**Environmental Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water/ Waste Water	pH	APHA 4500 H + B 23 <sup>rd</sup> Edition
		Total Suspended solids	APHA 2540 D 23 <sup>rd</sup> Edition
		Total Dissolved solids	APHA 2540 C 23 <sup>rd</sup> Edition
		Biochemical Oxygen Demand	APHA 5210 B 23 <sup>rd</sup> Edition
		Chemical Oxygen Demand	APHA 5220B 23 <sup>rd</sup> Edition
		Oil and Grease	APHA 5520 B 23 <sup>rd</sup> Edition

**Accreditation Scope**  
**Environmental Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water/ Waste Water	• Copper (Cu)	APHA 3120 B 23 <sup>rd</sup> Edition
		• Lead (Pb)	
		• Cadmium (Cd)	
		• Zinc (Zn)	
	• Nickel (Ni)		
		• Chromium (Cr)	
		• Iron (Fe)	
		• Manganese (Mn)	
		• Cobalt (Co)	
	Drinking water	Alkalinity	APHA 2320 B 23 <sup>rd</sup> Edition
		Hardness	APHA 2340 C 23 <sup>rd</sup> Edition
		Chlorides(Cl)	APHA 4500Cl B 23 <sup>rd</sup> Edition
		Sulphates(So4)	APHA 4500SO4 2- C 23 <sup>rd</sup> Edition

**Accreditation Scope**  
**Environmental Testing**  
**LB-TEST-030**

**Advanced Laboratory Center L. L. C**

Jebel Ali- Industrial Area 2  
Dubai- United Arab Emirates

Issue no.: 04

Date: 23-11-2020

Valid to: 16-07-2021

Type of Activity	Test Materials/Products	Test Name	Test Method
------------------	-------------------------	-----------	-------------

Chemical	Drinking water	Calcium(Ca)	APHA 3120 B 23 <sup>rd</sup> Edition
		Magnesium(Mg)	
		Sodium(Na)	
		Potassium(K)	

Accreditation History		
Issue no.	Details	Date
04	Re-issued to comply with the new accreditation number format and change the edition number of the test method	23-11-2020
03	First issuance under the name of EIAC (which was formerly known as DAC)	07-09-2020