



# ACCREDITATION CERTIFICATE

**LB-TEST-184**

**Emirates International Accreditation Centre**

has accredited

**LONESTAR TECHNICAL SERVICES LLC (JABEL ALI BRANCH)**

Jebel Ali Industrial Area First, Plot # 5999045, Shed # 5

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: 08/03/2021 to 29/05/2021

Initial Accreditation Date: 30/05/2018



  
CHIEF EXECUTIVE OFFICER  
APPROVAL



**Accreditation Scope**  
**Construction Materials Testing**

**LB-TEST-184**

**Lonestar Technical Services LLC (Branch)**

**Jebel Ali Industrial Area 1, Plot # 5999045, Shed # 5**

**Dubai- United Arab Emirates**

Issue no.: 03

Date: 08-03-2021

Valid to: 29-05-2021

| Type of Activity     | Test Materials/Products | Test Name  | Test Method  |
|----------------------|-------------------------|--|--|
| Physical/ Mechanical | Soil                    | Methods of test for soils for civil engineering purposes<br>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<br>Clause 3.5,3.6 1990<br>AMD 13925 |

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Valid to: 29-05-2021

| Type of Activity     | Test Materials/Products | Test Name  | Test Method                              |
|----------------------|-------------------------|--|--|
| Physical/ Mechanical | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 9: In-situ tests (sand replacement method suitable for fine, medium and coarse grained soils (large pouring cylinder method)    | BS 1377 Part 9<br>Clause 2.2             |
| Physical/ Mechanical | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 2: Classification tests Determination of particle size distribution - wet, dry sieving & Sedimentation by the hydrometer method | BS 1377 Part 2<br>Clauses 9.2, 9.3 & 9.5 |

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Date: 08-03-2021

Valid to: 29-05-2021

| Type of Activity     | Test Materials/Products | Test Name   | Test Method                  |
|----------------------|-------------------------|---|------------------------------|
| Physical/ Mechanical | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 2: Classification tests Determination of the liquid limit - cone penetrometer method (definitive method) | BS 1377 Part 2<br>Clause 4.3 |
| Physical/ Mechanical | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 2: Classification tests Determination of the plastic limit and plasticity index                          | BS 1377 Part 2<br>Clause 5   |

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| Type of Activity     | Test Materials/Products | Test Name  | Test Method                                      |
|----------------------|-------------------------|--|--|
| Physical/ Mechanical | Soil                    | Methods of test for Soils for civil engineering purposes<br>Part 4: Compaction-related tests.<br>Determination of the California Bearing Ratio (CBR) | BS 1377 Part 4<br>AMD 13925:2002<br>Test 7.2.3.2 |
| Physical/ Mechanical | Hardened Concrete       | Testing hardened concrete<br>Part 3: Compressive strength of test specimens (Concrete Cubes)   | BS EN 12390 Part 3                               |
| Physical/ Mechanical | Hardened Concrete       | Testing concrete<br>Part 116: Method for determination of compressive strength of concrete cubes   | BS 1881 Part 116                                 |

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| Type of Activity        | Test Materials/Products | Test Name  | Test Method        |
|-------------------------|-------------------------|--|--------------------|
| Physical/ Mechanical    | Hardened Concrete       | Testing concrete<br>Part 122: Method for<br>determination of Water<br>Absorption             | BS 1881 Part 122   |
| Physical/ Mechanical    | Hardened Concrete       | Testing hardened<br>concrete<br>Part 8: Depth of<br>penetration of water<br>under pressure   | BS EN 12390 Part 8 |
| Mechanical and physical | Hardened Concrete       | Testing concrete<br>Part 114: Method for<br>determination of density<br>of hardened concrete | BS 1881 Part 114   |

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| Type of Activity        | Test Materials/Products | Test Name  | Test Method        |
|-------------------------|-------------------------|--|--------------------|
| Mechanical and physical | Hardened Concrete       | Testing concrete<br>Part 111: Method of normal curing of test specimens (20°C method)                  | BS 1881 Part 111   |
| Mechanical/ Physical    | Hardened Concrete       | Testing hardened concrete<br>Part 1: Shape, dimensions and other requirements for specimens and moulds | BS EN 12390 Part 1 |
| Mechanical/ Physical    | Hardened Concrete       | Testing hardened concrete<br>Part 2: Making and curing specimens for strength tests                    | BS EN 12390 Part 2 |

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| Type of Activity        | Test Materials/Products | Test Name  | Test Method        |
|-------------------------|-------------------------|--|--------------------|
| Mechanical/ Physical    | Hardened Concrete       | Testing hardened concrete<br>Part 7: Density of hardened concrete  | BS EN 12390 Part 7 |
| Mechanical and physical | Hardened Concrete       | Testing concrete<br>Part 208:<br>Recommendations for the determination of the initial surface absorption of concrete | BS 1881 Part 208   |
| Mechanical and physical | Hardened Concrete       | Testing concrete in structures<br>Part 1: Cored specimens.<br>Taking, examining and testing in compression           | BS EN 12504 Part 1 |



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| Type of Activity        | Test Materials/Products | Test Name   | Test Method               |
|-------------------------|-------------------------|---|---------------------------|
| Mechanical and physical | Hardened Concrete       | Precast concrete masonry units<br>Part 1: Specification for precast concrete masonry units  | BS 6073 Part 1            |
| Mechanical and physical | Hardened Concrete       | Precast concrete masonry units<br>Part 2: Guide for specifying precast concrete masonry units<br>Determination of compressive strength of pre-cast concrete masonry units | BS 6073 Part 2 Appendix B |

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| Type of Activity        | Test Materials/Products | Test Name   | Test Method            |
|-------------------------|-------------------------|---|------------------------|
| Mechanical and physical | Hardened Concrete       | Precast concrete paving blocks<br>Part 1: Specification for paving blocks<br>Measurement of dimension of pre-cast concrete paving blocks              | BS 6717 Part 1 Annex A |
| Mechanical and physical | Hardened Concrete       | Precast concrete paving blocks<br>Part 1: Specification for paving blocks<br>Determination of compressive strength of pre-cast concrete paving blocks | BS 6717 Part 1 Annex B |

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| Type of Activity     | Test Materials/Products | Test Name  | Test Method     |
|----------------------|-------------------------|--|-----------------|
| Physical/ Mechanical | Aggregates              | Standard Test Method for Relative Density (Specific gravity ) and water absorption of Coarse Aggregate | ASTM C 127      |
| Physical/ Mechanical | Aggregates              | Standard Test Method for Relative Density (Specific gravity ) and water absorption of Fine Aggregate   | ASTM C128       |
| Physical/ Mechanical | Aggregates              | Testing aggregates Part 103: Methods for determination of particle size distribution. Sieve tests      | BS 812 Part 103 |

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| Type of Activity     | Test Materials/Products | Test Name   | Test Method       |
|----------------------|-------------------------|---|-------------------|
| Physical/ Mechanical | Aggregates              | Testing aggregates<br>Part 105: Methods for determination of particle shape. flakiness index                        | BS 812 Part 105.1 |
| Physical/ Mechanical | Aggregates              | Testing aggregates<br>Part 105: Methods for determination of particle shape. (Elongation index of coarse aggregate) | BS 812 Part 105.2 |
| Physical/ Mechanical | Aggregates              | Testing aggregates<br>Part 110: Methods for determination of Aggregate crushing value (ACV) (Coarse Aggregate Only) | BS 812 Part 110   |

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| Type of Activity        | Test Materials/Products | Test Name   | Test Method                  |
|-------------------------|-------------------------|---|------------------------------|
| Mechanical and physical | Aggregate               | Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | ASTM C131<br>ASTM C131/C131M |
| Mechanical and physical | Aggregate               | Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine | ASTM C535                    |
| Mechanical and physical | Aggregate               | Testing aggregates Part 112: Methods for determination of aggregate impact value (AIV)  | BS 812 Part 112              |

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|-------------------------|-------------------------|--|-----------------|
| Mechanical and physical | Aggregate               | Testing aggregates<br>Part 111: Methods for determination of ten per cent fines value (TFV)  | BS 812 Part 111 |
| Mechanical and physical | Aggregate               | Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate   | ASTM D2419      |
| Mechanical/ Physical    | Rock & Soils            | Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances | ASTM D4543      |

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|-------------------------|-------------------------|---|-------------|
| Mechanical/ Physical    | Rock & Soils            | Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass   | ASTM D2216  |
| Mechanical and physical | Rock & Soils            | Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures | ASTM D7012  |

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| Type of Activity        | Test Materials/Products | Test Name   | Test Method        |
|-------------------------|-------------------------|---|--------------------|
| Mechanical and physical | Geotextile              | Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method | ASTM D4595         |
|                         |                         | Geosynthetics. Wide-width tensile test  | BS EN ISO 10319    |
| mechanical and physical | Geotextile              | Standard Test Method for Trapezoid Tearing Strength of Geotextiles                        | ASTM D4533         |
| Mechanical and physical | Geotextile              | Standard Test Method for Grab Breaking Load and Elongation of Geotextiles                 | ASTM D4632/ D4632M |



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| Type of Activity        | Test Materials/Products | Test Name   | Test Method     |
|-------------------------|-------------------------|---|-----------------|
| Mechanical and physical | Geotextile              | Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products   | ASTM D4833      |
| Mechanical and physical | Geotextile              | Resistance Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe | ASTM D6241      |
| Mechanical and physical | Geotextile              | Geosynthetics. Static puncture test (CBR test)  | BS EN ISO 12236 |

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| Type of Activity        | Test Materials/Products | Test Name  | Test Method        |
|-------------------------|-------------------------|--|--------------------|
| Mechanical and physical | Water Proofing Membrane | Flexible sheets for waterproofing.<br>Determination of tensile properties<br>Part 1: Bitumen sheets for roof waterproofing       | BS EN 12311 Part 1 |
| Mechanical and physical | Water Proofing Membrane | Flexible sheets for waterproofing.<br>Determination of resistance to tearing (nail shank). Bitumen sheets for roof waterproofing | BS EN 12310 Part 1 |

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| Type of Activity        | Test Materials/Products | Test Name   | Test Method |
|-------------------------|-------------------------|---|-------------|
| Mechanical and physical | Water Proofing Membrane | Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover | ASTM E154   |
| Mechanical and physical | Concrete Piles          | Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations  | ASTM D5882  |
| Mechanical and physical | Concrete Piles          | Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing                       | ASTM D6760  |

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| Type of Activity        | Test Materials/Products | Test Name  | Test Method      |
|-------------------------|-------------------------|--|------------------|
| Mechanical and physical | Concrete Piles          | Standard Guide for Conducting Borehole Geophysical Logging: Mechanical Caliper   | ASTM D6167       |
| Chemical                | Concrete                | Standard Test Method for Electrical indication of concrete's ability to Resist chloride ion Penetration                        | ASTM C1202       |
| Chemical                | Concrete                | Testing Concrete Part 124: Methods for analysis of hardened concrete<br>Determination of chloride content in hardened concrete | BS 1881 Part 124 |

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| Type of Activity | Test Materials/Products | Test Name   | Test Method      |
|------------------|-------------------------|---|------------------|
| Chemical         | Concrete                | Testing Concrete<br>Part 124: Methods for analysis of hardened concrete<br>Determination of sulphate content in hardened concrete | BS 1881 Part 124 |
| Chemical         | Aggregate               | Testing aggregates.<br>Part 117: Method for determination of water-soluble chloride salts   | BS 812 Part 117  |
| Chemical         | Aggregate               | Testing aggregates<br>Part 118: Methods for determination of sulphate content   | BS 812 Part 118  |

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| Type of Activity | Test Materials/Products | Test Name   | Test Method                  |
|------------------|-------------------------|---|------------------------------|
| Chemical         | Water                   | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>Chloride Content of ground water | BS 1377 Part 3<br>Clause 9.2 |
| Chemical         | Water                   | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>Sulphate Content of ground water | BS 1377 Part 3<br>Clause 7.6 |

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| Type of Activity | Test Materials/Products | Test Name  | Test Method                   |
|------------------|-------------------------|--|-------------------------------|
| Chemical         | Water                   | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>(Determination of pH Value) | BS 1377 Part 3<br>Clause 12.0 |
| Chemical         | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>Determination of pH value   | BS 1377 Part 3<br>Clause 12.0 |

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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<br>Part 3: Chemical and electro-chemical tests<br>Determination of Sulphate Content of soil and ground water-Acid soluble Sulphate content of Soil | BS 1377 Part 3<br>Clause 7.6 |
| Chemical         | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>Determination of Chloride Content-Water soluble Chloride content of Soil                         | BS 1377 Part 3<br>Clause 9.2 |



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|------------------|-------------------------|--|------------------------------|
| Chemical         | Soil                    | Methods of test for soils for civil engineering purposes<br>Part 3: Chemical and electro-chemical tests<br>Determination of Chloride Content-Acid soluble Chloride content of Soil | BS 1377 Part 3<br>Clause 9.3 |

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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<br>Part 3: Chemical and electro-chemical tests<br>Determination of Sulphate Content of soil and ground water-Water soluble Sulphate content of Soil | BS 1377 Part 3<br>Clause 7.6 |

| Accreditation History |  |            |
|-----------------------|--|------------|
| Issue no.             | Details  | Date       |
| 03                    | Extension in scope (Add Geotextile, Water Proofing Membrane, Concrete Piles, Rock & Soils, Aggregate and Hardened Concrete tests) and to comply with the new accreditation number format | 08-03-2021 |
| 02                    | Comply with ISO 17025:2017 and first issuance under the name of EIAC (which was formerly known as DAC)   | 01-10-2019 |

## Accreditation Scope

### Geotechnical Investigation Testing

#### LB-TEST-184

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Issue no.: 03

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| Type of Activity   | Test Materials/Products | Test Name   | Test Method                 |
|--------------------|-------------------------|---|-----------------------------|
| Soil investigation | Site Work               | 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: P9, section 3.3    |
| Soil investigation | Site Work               | Code of practice for ground Investigations Section 4: Exploratory holes-Sampling the ground   | BS 5930 Section 4 Clause 25 |

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| Type of Activity   | Test Materials/Products | Test Name  | Test Method                    |
|--------------------|-------------------------|--|--------------------------------|
| Soil investigation | Site Work               | Code of practice for ground Investigations<br>Section 8: Field Instrumentation - Ground Water Measurements                         | BS 5930 Section 8<br>Clause 52 |
| Soil investigation | Site Work               | Code of practice for ground Investigations<br>Section 4:<br>Exploratory holes- Ground Water monitoring and Sampling                | BS 5930 Section 4<br>Clause 26 |
| Soil investigation | Rock                    | Code of practice for ground Investigations<br>Section 6:<br>Description of soils and rocks-Description and classification of rocks | BS 5930 Section 6<br>Clause 36 |

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|--------------------|-------------------------|---|---|
| Soil investigation | Soil                    | Code of practice for ground Investigations<br>Section 6:<br>Description of soils and rocks-Description of Soils | BS 5930 Section 6<br>Clause 33 and Clark and Walker |
| Soil investigation | Reporting               | Code of practice for ground Investigations<br>Section 10:<br>Reports and interpretation-Reports                 | BS 5930 Section 10<br>Clause 63                     |

| Accreditation History |  |            |
|-----------------------|--|------------|
| Issue no.             | Details  | Date       |
| 03                    | Re-issued to comply with the new accreditation number format   | 08-03-2021 |
| 02                    | Comply with ISO 17025:2017 and first issuance under the name of EIAC (which was formerly known as DAC) | 01-10-2019 |