



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AL BARAHA TECHNICAL LABORATORIES
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CHEMICAL

Valid To: December 31, 2022

Certificate Number: 4881.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

| Test Method: | Test Description: |
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| Aggregate: | |
| ASTM C40/C40M | Organic Impurities in Fine Aggregates for Concrete |
| ASTM C494/C494M | Chemical Admixtures for Concrete |
| ASTM D891 | Specific Gravity, Apparent, of Liquid Industrial Chemicals |
| BS 812 Part 117 Appendix C | Testing aggregates. Method for determination of acid-soluble chloride salts |
| BS 812 Part 118 Clause 6 | Testing aggregates. Methods for determination of Sulfate content |
| BS EN 1744-1+A1 | Tests for chemical properties of aggregates. Chemical analysis Determination of Acid Soluble Sulfate in Aggregates |
| BS EN 1744-5 | Tests for chemical properties of aggregates. Determination of acid soluble chloride salts |
| Cement: | |
| BS EN 196 Part 2, Clause 4.4.1 | Method of testing cement: Part 2: Chemical analysis of cement - Loss on ignition |
| BS EN 196 Part 2, Clause 4.4.3 | Method of testing cement: Part 2: Chemical analysis of cement - Insoluble residue |
| BS EN 196 Part 2, Clause 4.5.5 | Method of testing cement: Part 2: Chemical analysis of cement - Impure silica |
| BS EN 196 Part 2, Clause 4.5.6 | Method of testing cement: Part 2: Chemical analysis of cement - Pure silica |
| BS EN 196 Part 2, Clause 4.5.14 | Method of testing cement Part 2: Chemical analysis of cement - Calcium Oxide |
| BS EN 196 Part 2, Clause 4.5.11 | Method of testing cement Part 2: Chemical analysis of cement - Aluminum Oxide |
| BS EN 196 Part 2, Clause 4.5.10 | Method of testing cement Part 2: Chemical analysis of cement - Iron Oxide |
| BS EN 196 Part 2, Clause 4.5.15 | Method of testing cement Part 2: Chemical analysis of cement - Magnesium oxide |
| BS 1881 Part 124, Clause 12.2 | Testing concrete Part 124: Methods for analysis of hardened concrete (Determination of Sulphate content in hardened concrete) |

| Test Method: | Test Description: |
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| BS 1881 Part 124, Clause 12.1 | Testing concrete Part 124: Methods for analysis of hardened concrete (Determination of Chloride content in hardened concrete) |
| BS EN 196 Part 2 | Method of testing cement Part 2: Chemical analysis of cement - Sulphate |
| BS EN 196 Part 2 | Method of testing cement Part 2: Chemical analysis of cement - Chloride |
| ASTM C1218 | Water Soluble Chloride in mortar and concrete |
| ASTM C1152/C1152M | Acid Soluble Chloride in mortar and concrete |
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| Soil: | |
| BS 1377 Part 3, Clause 7.9 | Methods of test for soils for civil engineering purposes. Chemical and electro-chemical tests (Determination of acid soluble sulfate content) |
| BS 1377 Part 3, Clause 9.3 | Methods of test for soils for civil engineering purposes. Chemical and electro-chemical tests (Determination of acid soluble chloride content) |
| BS 1377 Part 3, Clause 12 | Methods of test for soils for civil engineering purposes. Chemical and electro-chemical tests (pH value) |
| BS 1377 Part 3, Clause 4.0 | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests: Determination of the organic matter content Clause 3 |
| BS 1377 Part 3, Clause 8.3 | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of Carbonate 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 Water Soluble Chloride Content of Soil |
| BS 1377 Part 3, Clause 7.6 | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests (Determination of the sulphate content of soil and ground water) Determination of Water Soluble Sulphate Content of Soil |
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| Admixtures: | |
| BS EN 480 Part 10 Clause 4 | Admixtures for concrete, mortar and grout. Test methods. Reference concrete and reference mortar for testing Chloride Content of Admixture |
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| Water/Waste Water: | |
| APHA 4500 H +B: 23 rd Edition 2017 | pH |
| APHA 2510 B: 23 rd Edition 2017 | Electrical Conductivity |
| APHA 2540 C: 23 rd Edition 2017 | Total Dissolved Solids at 180 ° C. |
| APHA 2540 D 23 rd Edition 2017 | Water -Total Suspended Solids |
| APHA 2540 B 23 rd Edition 2017 | Water -Total Solids |

| Test Method: | Test Description: |
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| APHA 2540 F 23 rd Edition 2017 | Determination of Settle able solids of water |
| APHA 5220 D: 23 rd Edition 2017 | Chemical Oxygen Demand |
| APHA 2320 B: 23 rd Edition 2017 | Alkalinity, Carbonate, Bicarbonate, Hydroxide Alkalinity |
| SOP/OPN/28 | Sampling |
| APHA 2130 B: 23 rd Edition 2017 | Turbidity |
| HACH Method 8038 | Nitrogen-Ammonia |
| HACH Method 8039 | Nitrogen-Nitrate |
| HACH Method 8021 (Adapted method of APHA 4500 Cl G): 23 rd Edition 2017 | Chlorine |
| APHA 4500 Cl –B: 23 rd Edition 2017 | Chloride |
| HACH Method 8048 (Adapted method of APHA 4500 –P E): 23 rd Edition 2017 | Phosphorus |
| APHA 4500 SO4 2-C: 23 rd Edition 2017 | Sulphate |
| HACH Method 8008 | Iron |
| APHA 2340 C: 23 rd Edition 2017 | Hardness |
| APHA 3500-Mg B: 23 rd Edition 2017 | Magnesium |
| APHA 3500-Ca B 23 rd Edition 2017 | Calcium |
| HACH Method 8506 (Adapted method of APHA 3500-Cu C): 23 rd Edition 2017 | Copper |



Accredited Laboratory

A2LA has accredited

AL BARAHA TECHNICAL LABORATORIES

Doha, Qatar

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 11th day of March 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4881.02
Valid to December 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.