

USACE-Certified Laboratory Certification

FEKA Construction Co. Site Lab

Lab ID: LCP-041

Issue date: Mar 16th, 2021

Expiry date: Dec 15th, 2021

This extension letter confirms an additional 9-months certification for the FEKA's Site Lab for project **NATFO 253/S Disability Rehabilitation Center at Kabul National Military Hospital (KNMH)**, which is located at Street #15, Bibi Mahro Hill, Wazir Akbar Khan, District #10, Kabul, Afghanistan. This laboratory should now be considered as **USACE-Certified for a period of 9-months** from the date of this letter. This laboratory should now be considered as certified for use by the US Army Corps of Engineers Transatlantic Afghanistan District (USACE TAA) and other clients, for all tests listed in Table 1 to Table 3, as attached to this letter. This certification will be included with records that are maintained at the ABA and USACE TAA Headquarters in Bagram Airbase, Afghanistan. Retaining the certification will require yearly inspections by the ABA. This certification is also contingent upon the following conditions:

- A. Continued employment of the below individual while without his oversight, the laboratory will require recertification:
 - a. Mr. Murat Avci the laboratory manager;
- B. If the calibration certificates of equipments expire or become invalid as per the relevant standard;
- C. If the laboratory is moved to a new location, it will require recertification; and
- D. If the laboratory fails to comply by the approved lab quality management plan, safety standards, and other criteria set forth in the most up-to-date ABA lab certification manual, the lab certification may be suspended.

For verification and good standing of this certification please check our online directory of laboratories at http://aba.af/lcp_directory.php. The inspection and certification process for FEKA adhered to procedures outlined by the Materials Testing Center (MTC), which is located at the Geotechnical and Structures Laboratory (GSL), U.S. Army Engineer Research and Development Center (ERDC) in Vicksburg, Mississippi, USA. The MTC is the USACE-authorized agency for certifying laboratories for use in quality control testing for USACE construction projects. To facilitate construction in Afghanistan, the USACE TAA has authorized the ABA to conduct laboratory certifications with strict adherence to MTC protocol. Qualifications of the authors for conducting these certifications include: 12 years of laboratory experience, 12 years of teaching classes on construction materials, and six years of teaching university-level construction classes.

Certified to perform 27 tests, as shown on attached sheets and summarized as:

Table 1: 8

Table 2: 9

Table 3: 10

Regards,



Ferdaws Khaliqi, PMP

ABA-Laboratory Certification Program Manager
(ABA-LCP)

FEKA Certified Site Laboratory Tests

Table 1. List of Certified Soil Tests

No	Test Method	Test Procedure Title
1	ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
2	ASTM D1140	Standard Test Methods for Determining the Amount of Material finer than 75 μ m (No. 200) Sieve in Soils by Washing
3	ASTM D1556	Standard Test Method for Density & Unit Weight of Soils in Place by Sand-Cone Method
4	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics by Modified Effort
5	ASTM D2216	Standard Test Method for Laboratory Determination of Water(moisture) Content of Soil and Rock By Mas
6	ASTM D2487	Classification of Soils for Engineering Purposes (Unified of Soil Classification System)
7	ASTM D2488	Description and Identification of Soil (Visual-Manual Procedures)
8	ASTM D4318	Standard Test Methods Liquid & Plastic Limits & Plasticity Index

Table 2. List of Certified Aggregate (Fine and Coarse) Tests

No	Test Method	Test Procedure Title
1	ASTM C117	Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
2	ASTM C127	Standard Test Method for Specific Gravity & Absorption in Coarse Aggregate
3	ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate density
4	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregate
5	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates clay lumps
6	ASTM C566	Standard Test Method for Total Evaporation Moisture Content of Aggregate by Drying
7	ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size sample size
8	ASTM D75	Standard Practice for Sampling Aggregates
9	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate



Table 3. List of Certified Concrete Tests

No	Test Method	Test Procedure Title
1	ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field
2	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical
3	ASTM C143	Standard Test Method for Slump of Hydraulic-Cement Concrete
4	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
5	ASTM C192	Standard Practice for Making and Curing Test Specimens in Laboratory
6	ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by Pressure Method
7	ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete
8	ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
9	ASTM C1231	Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens
10	ASTM D3665	Standard Practice for Random Sampling of Construction Materials

