

Laboratory Certification For

Truth Land Engineering Services (TLES)

Lab ID: LCP-033

Issue date: July 19th, 2018

Expiry date: Jan 18th, 2019

This letter confirms the completion of inspection and certification for the TLES CMT Lab, which is located beside Naseeb Restaurant, Dehbori Kabul, Afghanistan. This laboratory should now be considered as **Certified for a period of 6-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. The test **(ASTM D4643) is not permitted under this period of Certification**. 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. Sayed Ali Hashemi 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 the TLES 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 60 tests, as shown on attached sheets and summarized as:

Table 1: 26

Table 2: 19

Table 3: 15

Regards,



Mowdood Popal

President of Afghanistan Builders Association



TLES CMT Laboratory Certified Tests

Table 1. List of Soil Tests

No	Test Method	Test Procedure Title
1	ASTM D4318	Standard Test Method for Determining the Liquid & Plastic Limits & Plasticity Index of soils
2	AASHTO T224	Standard Method of Test for Correction for Coarse Particles in the Soil Compaction Test
3	ASTM D421	Standard practice for preparation of soil sample for particle size Analysis and Determination of soil constants
4	ASTM D422	Standard test Method for Particle-Size Analysis of soil
5	ASTM D698	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort
6	ASTM D854	Standard Test Methods for Specific Gravity of Soils Solids by Water pycnometer
7	ASTM D1140	Standard Test Methods For Amount of Material in soil Finer than No.200(75- μ m)Sieve
8	ASTM D1556	Standard Test Methods for Density & Unit Weight of Soil in place by Sand Cone Method
9	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of soil using Modified Effort
10	ASTM D1883	Standard Test Methods for CBR (California Bearing Ratio) of Laboratory-Compacted Soils
11	ASTM D2166	Standard Test Method for Unconfined Compressive Strength of Cohesive Soils
12	ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
13	ASTM D2487	Standard Practice for Classification of Soils for Engineering purposes(Unified Soil Classification System)
14	ASTM D2488	Standard Practice for Description and Identification of Soils (Visual- Manual Procedure)
15	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
16	ASTM D4959	Standard Test Method for Determination of Water (Moisture) Content of Soil by Direct Heating
17	ASTM D6026	Standard Practice for Using Significant Digits in Geotechnical Data
18	ASTM D6913	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
19	ASTMD1586	Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils
20	ASTM D1587	Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes
21	ASTM D2113	Standard Practice for Rock Core Drilling and Sampling of Rock for Site Investigation
22	ASTM D2435	Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading
23	ASTM D3080	Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions
24	ASTM D3550	Standard Practice for thick Wall, Ring-lined, Split Barrel, Drive Sampling of Soils

25	ASTM D4221	Standard Test Method for Dispersive Characteristics of Clay Soil by Double Hydrometer
26	ASTM D6032	Standard Test Method for Determining Rock Quality Designation (RQD) of Rock Core

Table 2. List of Aggregate (Fine and Course) Tests

No	Test Method	Test Procedure Title
1	ASTM C29	Standard Test Method for Bulk Density (Unit Weight) and Voids in Aggregate
2	ASTM C70	Standard Test Method for Surface Moisture in Fine Aggregate
3	ATSM C88	Standard Test Method for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
4	ASTM C117	Standard Test Method for Material Finer than 75 μm (No. 200) Sieve in Mineral Aggregates by Washing
5	ASTM C127	Standard Test Method for Density, Relative (Specific Gravity) ,and Absorption in Coarse Aggregate
6	ASTM C128	Standard Test Method for Density, Relative (Specific Gravity),and Absorption of Fine Aggregate
7	ASTM C131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
8	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
9	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates
10	ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
11	ASTM C566	Standard Test Method for Total Evaporation Moisture Content of Aggregate by Drying
12	ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size
13	ASTM D75	Standard Practice for Sampling Aggregate
14	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soil and Fine Aggregate
15	ASTM D4791	Standard Test Method for Flat Particles, Elongated Particles, or Flat & Elongated Particles in Coarse Aggregate
16	ASTM D4944	Standard Test Method for Field Determination of Water (Moisture) Content of Soil by The Calcium Carbide Gas Pressure Tester
17	ASTM D5079	Standard Practice for Preserving and Transporting Rock Core Samples
18	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate
19	CRD-C171	Standard Test Method for Determining the Percentage of Crushed Particles in Aggregate

Table 3. List of Cement, Grout, Mortar, & Concrete Tests

No	Test Method	Test Procedure Title
1	ASTM C31	Standard Practice for Making and Curing Test Specimens in the Field
2	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
3	ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sewed Beams of Concrete

No	Test Method	Test Procedure Title
4	ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in or {50-mm} Cube Specimens)
8	ASTM C143	Standard Test Method for Slump of Hydraulic –Cement Concrete
6	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
7	ASTM C174	Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
8	ASTM C 0192	Standard Practice for Making and Curing Concrete Test Specimens in the laboratory
9	ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
10	ASTM C617	Standard Practice for Capping Cylindrical Specimens
11	ASTM C642	Standard Test Method for Density, Absorption and Voids in Hardened Concrete
12	ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete
13	ASTM C823	Standard Practice for Examination and Sampling of Hardened concrete in Construction
14	ASTM C1019	Standard Test Method for Sampling and Testing Grout
15	ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete