Laboratory Certification For

Venco Imtiaz Construction Company

Lab ID: LCP-010

Issue date: May 28th, 2020
Expiry date: May 27th, 2021

This letter confirms the completion of inspection and certification for the VICC CMT Lab, which is located in Spin Ghar Road, Hod Khail, District #9, Pol-e-Charkhi, Kabul, Afghanistan. This laboratory should now be considered as **Certified for a period of 12-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 7, 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. Noorullah Mashwani 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 VICC 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 93 tests, as shown on attached sheets and summarized as:

Table 1: 16
Table 2: 19
Table 3: 23
Table 4: 23
Table 5: 6
Table 6: 3
Table 7: 3

Regards,

Ferdaws Mirza
ABA-Laboratory Certification Program Manager
(ABA-LCP)

VICC CMT Laboratory Certified Tests

Table 1. List of Soil Tests

No	Test Method	Test Procedure Title
1	ASTM D421	Dry Preparation for Particle Size Distribution & Soil Constants
2	ASTM D422	Particle Size Analysis
3	ASTM D698	Compaction Characteristics by Standard Effort
4	ASTM D854	Specific Gravity of Soils
5	ASTM D1140	Material Finer than 75 mm (No. 200) Sieve
6	ASTM D1556	Density & Unit Weight by Sand Cone
7	ASTM D1557	Compaction Characteristics by Modified Effort
8	ASTM D1883	California Bearing Ratio (CBR)
9	ASTM D2487	Standard Practice for Classification of Soils
10	ASTM D3282	Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purpose
11	ASTM D4318	Liquid & Plastic Limits & Plasticity Index
12	ASTM D4643	Determination of Water (Moisture) Content of Soil by the Microwave Oven Heating
13	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
14	ASTM D6951	Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications
15	AASHTO T93	Standard Method of Test for Determining the Field Moisture Equivalent of Soils
16	AASHTO T224	Standard Practice for Correction for Coarse Particles in the Soil Compaction Test

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

No	Test Method	Test Procedure Title
1	ASTM C29	Unit Weight and Voids in Aggregate
2	ASTM C40	Organic Impurities in Fine Aggregates for Concrete
3	ASTM C70	Surface Moisture in Fine Aggregate
4	ATSM C88	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
5	ASTM C117	Material Finer than 75 µm (No. 200) Sieve
6	ASTM C127	Specific Gravity & Absorption in Coarse Aggregate
7	ASTM C128	Specific Gravity & Absorption in Fine Aggregate
8	ASTM C131	Los Angeles Abrasion Resistance on Small-Size Coarse Aggregate
9	ASTM C136	Sieve Analysis of Aggregates
10	ASTM C142	Clay Lumps
11	ASTM C535	Los Angeles Abrasion Resistance on Large Size Coarse Aggregate
12	ASTM C566	Total Moisture Content
13	ASTM C702	Standard Practice for Reducing Samples to Testing Size

No	Test Method	Test Procedure Title
14	ASTM C1252	Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)
15	ASTM D75	Standard Practice for Sampling Aggregate
16	ASTM D2419	Sand Equivalent Value
17	ASTM D4791	Flat or Elongated Particles
18	ASTM D4944	Field Determination of Water (Moisture) Content of Soil by The Calcium Carbide Gas Pressure Tester
19	ASTM D5821	Percentage of Fractured Particles in Coarse 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	Compressive Strength of Cylindrical Specimens
3	ASTM C42	Obtaining and Testing Drilled Cores and Sewed Beams of Concrete
4	ASTM C109	Compressive Strength of Hydraulic Cement Mortars
5	ASTM C143	Slump of Hydraulic –Cement Concrete
6	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
7	ASTM C174	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
8	ASTM C187	Amount of Water Required for Normal Consistency of Hydraulic Cement Paste
9	ASTM C188	Density of Hydraulic Cement
10	ASTM C191	Time Setting of Hydraulic Cement by Vicat Needle
11	ASTM C192	Standard Practice for Making and Curing Test Specimens in Laboratory
12	ASTM C204	Fineness of Hydraulic Cement by Air-Permeability Apparatus
13	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
14	ASTM C232	Bleeding of Concrete
15	ASTM C430	Fineness of Hydraulic Cement by the 45-um (No.325)
16	ASTM C451	Early Stiffening of Hydraulic Cement (Paste Method)
17	ASTM C617	Standard Practice for Capping Cylindrical Specimens
18	ASTM C642	Density, Absorption and Voids in Hardened Concrete
19	ASTM C666	Resistance of Concrete to Rapid Freezing and Thawing
20	ASTM C805	Rebound Number of Hardened Concrete
21	ASTM C1019	Sampling and Testing Grout
22	ASTM C1064	Temperature of Freshly Mixed Hydraulic-Cement Concrete
23	ASTM C1437	Standard Test Method for Flow of Hydraulic Cement Mortar

Table 4. List of Asphalt Cement and Asphalt Concrete Tests

No	Test Method	Test Procedure Title
1	ASTM D5	Penetration of Bituminous Materials
2	ASTM D36	Softening Point
3	ASTM D70	Density of Semi-Solid Bituminous Materials (Pycnometer Method)
4	ASTM D92	Flash and Fire Points by Cleveland Open Cup Tester
5	ASTM D113	Standard Test Method for Ductility of Bituminous Material
6	ASTM D140	Standard Practice for Sampling Bituminous Materials
7	ASTM D546	Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures
8	ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures
9	ASTM D2041	Theoretical Maximum Specific Gravity & Density (Rice)
10	ASTM D2042	Solubility by Trichloroethylene
11	ASTM D2172	Quantitative Extraction
12	ASTM D2489	Estimating Degree of Particle Coating of Bituminous- Aggregate Mixtures
13	ASTM D2726	Bulk Specific Gravity and Density
14	ASTM D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
15	ASTM D3549	Thickness or Height of Compacted Bituminous Paving Mixtures Specimens
16	ASTM D3665	Standard Practice for Random Sampling of Construction Materials
17	ASTM D5361	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing
18	ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
19	ASTM D6926	Standard Practice for Preparation of Bituminous Specimens Using Marshall Apparatus
20	ASTM D6927	Marshall Stability and Flow of Bituminous Mixtures
21	AASHTO T79	Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Less Than 93.3°c (200°F)
22	AASHTO T182	Coating and Stripping of Bitumen-Aggregate Mixtures
23	AASHTO T230	Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures

Table 5. List of Bricks, Stone, & CMU's Tests

No	Test Method	Test Procedure Title
1	ASTM C67	Sampling and Testing Brick and Structural Clay Tile
2	ASTM C90	Load Bearing Concrete Masonry Units
3	ASTM C97	Absorption and Bulk Specific Gravity of Dimension Stone
4	ASTM C140	Sampling and Testing Concrete Masonry and Related Units
5	ASTM C170	Compressive Strength of Dimension Stone
6	ASTM C 1552	Capping CMU/Related Units/Masonry Prisms for Compression Testing

Table 6. List of Advanced Soil Tests

No	Test Method	Test Procedure Title
1	ASTM D1195	Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements
2	ASTM D1196	Non-Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements
3	ASTM D1586	Penetration Test and Split-Barrel Sampling of Soils

Table 7. List of Steel Tests

No	Test Method	Test Procedure Title
1	ASTM A370	Test Methods and Definitions for Mechanical Testing of Steel Products (Bend & Tensile)
2	ASTM E8	Tension Testing of Metallic Materials
3	AASHTO T285	Bend Test for Bars for Concrete Reinforcement