Afghanistan Builders Association Building Afghanistan Together



اتحادیه شرکت های ساختمانی افغانستان بیایید افغانستان را با هم بسازیم

Laboratory Certification For

Atlas Construction Material Testing Laboratory (ACMTL)

Lab ID: LCP-029

Table 1: 9

Table 2: 13 Table 3: 11

Table 4: 5

Table 5: 16

Issue date: May 4th, 2017 Expiry date: Nov 4th, 2017

This letter confirms the completion of inspection and certification for the ACMTL, which is located at House # 397, Public Hospital Square, Kabul-Jalalabad Main road, Afghanistan. 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 5, 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:
 - 1. Noor ul Amin the laboratory manager;
- B. If the calibration certificates of equipments expire or become invalid as per the relevant ASTM or AASHTO 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 ACMTL 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 54 tests, as shown on attached sheets and summarized as:

Regards,

Naeem Yassin

President of Afghanistan Builders Association





ACMTL Certified Laboratory Tests

Table 1. List of Soil Tests for ACMTL

No	Test Method	Test Procedure Title
1	ASTM C136	Standard Test Method for Particle Analysis of Soils
	ASTM D854	Standard Test Methods for Amount of Material in Soil Solids by Water
2	ASTIM D654	Pycnometer
	ASTM D1140	Standard Test Methods for Amount of Material in Soils Finer than No.
3	ASTIM DI140	200(75-75 μm)
	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil in Place by
4	ASTIM DI330	Sand-Cone Method
	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil
5		Using Modified Effort
	ASTM D2487	Standard Practice for Classification of Soils for Engineering Purposes
6	A31101 D2407	(Unified Soil Classification System)
	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit and Plasticity Index
7	A3101 D4310	of Soils
8	ASTM D4643	Lab Determination of Water (Moisture) content of Soil by Oven Heating
9	ASSHTO T224	Correction for Coarse Particles in the Soil Compaction Test

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

No	Test Method	Test Procedure Title
1	ASTM C29	Standard Test Method for Unit Weight and Voids in Aggregate
2	ASTM C70	Test Method for Surface Moisture in Fine Aggregate
3	ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium
		Sulfate or Magnesium Sulfate
4	ASTM C117	Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in
	ASTIVI CI17	Mineral Aggregates by Washing
5	ASTM C127	Standard Test Method for Density, Relative Density (Specific Gravity),
	ASTIVI C127	and Absorption of Coarse Aggregate
6	ASTM C128	Standard Test Method for Density, Relative Density (Specific Gravity),
		and Absorption of Fine Aggregate
7	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
8	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates
9		Standard Test Method for Resistance to Degradation of Small-Size &
	ASTM C535	Large Size Coarse Aggregate by Abrasion and Impact in the Los Angeles
		Machine
10	ASTM D75	Standard Practice for Sampling Aggregates
11	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine
		Aggregate



No	Test Method	Test Procedure Title
12	BS 812	Flat and Elongated Particles in Coarse Aggregates
13	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate

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

No	Test Method	Test Procedure Title
	ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in
1		the Field
	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete
2		Specimens
	ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and
3		Sewed Beams of Concrete
	ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement
4	ASTINICIOS	Mortars (Using 2-in. or [50-mm] Cube Specimens)
5	ASTM C143	Standard Test Method for Slump of Hydraulic-Cement Concrete
6	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
		Standard Test Method for Air Content of Freshly Mixed Concrete by the
7	ASTM C231	Pressure Method
8	ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens
9	ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete
		Standard Test Method for Temperature of Freshly Mixed Hydraulic
10	ASTM C1064	Cement Concrete
10	ACI 211	Concrete Mix Decign
	ACI 211	Concrete Mix Design
11		



Table 4. List of Stone, Bricks & Masonry Units Tests

No	Test Method	Test Procedure Title
		Standard Test Methods for Sampling and Testing Brick and Structural
1	ASTM C67	Clay Tile
		Standard Test Methods for Sampling and Testing Concrete Masonry
2	ASTM C140	Units and Related Units
3	ASTM C170	Standard Test Method for Compressive Strength of Dimension Stone
4	ASTM C1019	Standard Test Method for Sampling and Testing Grout
		Standard Practice for Capping Concrete Masonry Units, Related Units
5	ASTM C1552	and Masonry Prisms for Compression Testing

Table 5. List of Asphalt Cement and Asphalt Concrete Tests

No	Test Method	Test Procedure Title
1	ASTM D5	Standard Test Method for Penetration of Bituminous Materials
2	ASTM D36	Standard Test Method for Softening Point of Bitumen (Ring-and Ball Apparatus)
3	ASTM D70	Standard Test Method for Density of Semi-Solid Bituminous Materials (Pycnometer Method)
4	ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
5	ASTM D140	Standard Practice for Sampling Bituminous Materials
6	ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures
7	ASTM D1664	Standard Test Method for Coating and Stripping of Bitumen-Aggregate Mixtures
8	ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
9	ASTM D2172	Standard Test Methods for Quantitative Extraction
10	ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non- Absorptive Compacted Bituminous Mixtures
11	ASTM D3203	Standard Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
12	ASTM D3549	Standard Test Method for Thickness or Height of Compacted Bituminous Paving Mixtures Specimens
13	ASTM D5361	Standard Practice for Sampling compacted Bituminous Mixtures for Laboratory Testing

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No	Test Method	Test Procedure Title
	ASTM D6926	Standard Practice for Preparation of Bituminous Specimens Using
14	ASTIVI D0920	Marshall Apparatus
	ASTM D6927	Standard Test Method for Marshall Stability and Flow of Bituminous
15	ASTIVI D0927	Mixtures
16	MS -2	Asphalt Mix Design(JMF)