



**Construction Material Testing Company**

**Factsheet**

**2020**

**Construction Material Testing Company Mission Statement**

**“To provide the highest quality of Certified Material Testing with Quality Service from our Dedicated Staff of Professionals”**

**Construction Material Testing Company**  
**Kunduz, Badakhshan, Takhar, Mazar-e-Sharif and Jalalabad**  
**+93-(0)799-314-737, +93(0)700-237-665**  
**[www.cttc-af.org](http://www.cttc-af.org) Email: [Info@cttc-af.org](mailto:Info@cttc-af.org)**  
**©CMTC, 2020**

Thank you for visiting CMTC for your certified testing of your Construction Material needs. Our Professional Staff is Available to assist you at our three locations in main office Kabul, Jalalabad, Badakhshan and Kunduz. We have attached our latest Lab Certification.

If I can assist you in any way, please contact me via email or phone. CMTC wishes you much continued success in your endeavors.

Sincerely,



Harvey Kidman  
CMTC Project Manger  
[harvey.kidman@cttc-af.org](mailto:harvey.kidman@cttc-af.org)  
+93-(0)707-352-838

## **Welcome:**

Certified Material Testing Company is a leading privately owned Material Testing Company. Established in 2006 and consistently ranked as one of the top Contractors in the Afghanistan Specializing in construction material testing.

## **Corporate Profile:**

In the last few years, CMTC has witnessed substantial and consistent growth. To respond to our client's needs, we have opened three regional offices in Afghanistan, Kabul, Jalalabad, Kunduz and Badakhshan. Each of these is certified by the U.S. Army Corps of Engineers. The inspection and certification process for the CMTC Laboratories adheres to procedures outlined by the Materials Testing Center Army (MTC) is the USACE authorized agency for certifying laboratories for use in quality control testing for USACE construction projects. While the CMTC laboratories are physically at these locations within AEN, CMTC can perform tests anywhere within the AEN Theater of operation.

CMTC services include

Certified Material Test Procedures Include:

Soils (14 test procedures)

Aggregate (16 test procedures)

Cement, Grout, Mortar and Concrete (11 test procedures)

Asphalt Cement and Asphalt Concrete (6 test procedures)

Bricks, Stone and Concrete Masonry units (3 test procedures)

Steel Rebar

Geo Technical

The Test Methods and Test procedure Titles are attached to each Certification Document.

## **SUMMARY**

CMTC is built upon professionalism, quality, knowledge and experience. Its aim is to assist Afghans in the reconstruction / rehabilitation and development of their home land through the design and implementation of up to date and high standard project and design technologies. CMTC engineers have years of national and international experience with various organizations in the field of project management, administration and engineering projects. Such projects include construction of buildings, roads, irrigation and water supply, sanitation, bridge and dam projects. This experience and skill gives a unique background to CMTC staff managing any type of project design testing and implementation project.

CMTC has a Defense Base ACT Common Policy in Effect. Our Policy number is COE 29 576 5428 with Rutherford International, Inc in Alexandria Virginia and is current.

Dyn Corp is our Largest Contract Vendor in Afghanistan and we supply Material Testing to them throughout Afghanistan.

## **IDENTITY**

CMTC holds official license from the transitional Islamic State of Afghanistan, head office located in Kabul and our registration Number is D33099.

## **MISSION**

A group of sincere Afghan engineers came together and decided to form the Company to assist the Afghan government, national & international communities in the process of rehabilitation of and development of the homeland of Afghanistan. CMTC offers the only material testing training in Afghanistan.

## **MISSION STATEMENT**

“To Provide the Highest Quality of Certified Material Testing With Quality Service from Our Dedicated Staff of Professional”

**Construction Material Testing Company is Providing Services as an Official  
Material Testing Laboratory for below (Major Projects)**

Construction of SiKA-North Project, Baghlan & Kunduz  
Local Contractors Funded by DAI ( USAID)

Construction of Regional Hospital Kunduz  
Contractor METAG, HUMA Jv Const Co) Funded by KFW

Construction of Regional Hospital Takhar  
Contractor Airuss Associates Funded by KFW

Construction of Water Supply Project, Imam Sahib  
Contractor PEFIER-KASEL Funded by KFW

Construction of ANA 2/209<sup>th</sup> Garrison Expansion and 6<sup>th</sup> Infantry Kandak Kunduz  
Contractor Biltek (Zia Ahmad zai Const Co) Funded by USACE

Construction of Afghan National Police UP Provincial HQ/Med Kunduz  
Contractor Arvin Kam Construction Company, Managed by ECCI Funded by USACE

Construction of National Army Volunteer Center Kunduz  
Contractor Suleman Arghandawal Construction Company, Managed by ECCI Funded by  
USACE

Construction of ANP-BP Security Battalion, Air Base, Kunduz  
Contractor Zurmat Group of Companies, Managed by ECCI Funded by USACE

Construction of Reintegration Training Center at Parwan Detention Center. Bagram (BAF)  
Contractor CTTC by Embassy of UK.

Construction of 209<sup>th</sup> HQ Facilities, ANA Installation Kunduz  
Contractor DynCorp International Funded by USACE

Construction of Counter Narcotics Regional Law Enforcement Compound Kunduz  
Contractor RRCC, Managed by ECCI Funded by USACE

Construction of PRT Building and Air Port Road Kunduz  
Contractor LMK & HESA Funded by USACE

Construction of Regional Training Center Kunduz  
Contractor On Site Construction Funded by USACE

Construction of PAT Enclosure for ISAF Taluqan  
Contractor GTZ Funded by

Construction of Takhar University  
Contractor GTZ Funded by (GTZ Building Team)

Construction of PRT Projects for ISAF at FaizAbad  
Contractor GTZ Funded by (ISAF)

Kunduz River Basin Program (KRBP) Kunduz, Takhar and Baghlan Provinces  
Ministry of Energy and Water  
Local Contractors Funded by European Commission

Amu River Basin Program (ARBP) Kunduz, Takhar and Badkshshan Provinces  
Ministry of Energy and Water  
Local Contractors Funded by European Commission

Khan Abad Irrigation Scheme Rehabilitation (KISR) Kunduz.  
Ministry of Irrigation  
Local Contractors Funded by European Commission

Bridge on Kunduz River and Access Road  
Ministry of Public Works, managed by KFW  
Dangyl AS

Tajik Afghan Power Interconnection Line.  
Contractor KEC International

Ministry of Energy and Water, Managed by SMEC International

MSI-IRDP Project

### **Ministry of Energy & Water Project**

Rehabilitation of U-510 Turkman Canal Irrigation Scheme in Imam Sahib District of Kunduz Province

Rehabilitation Works for Kohna Qala River Bank Protection Irrigation in Baghlan Jadid District of Baghlan Province UR-10

Jangataghan Irrigation Scheme (U-124) Khwaja Baodin Takhar Province

Rehabilitation of Parikham River Bank Protection (UR-501)

### **UNICEF Project**

Construction of kunduz MDR+TB Ward  
Takhar-Cold Chain Office Building

### **General Testing Services for below**

Geo-Technical Investigation of Faiz Abad AirPort

Geo-Technical Investigation of Kunduz- Taloqan Power Transmission Line

Construction of Roads and Bridges in Baghlan, Takhar and Kunduz Provinces.  
Executed by Local Contractors Funded by UNOPS

University of Kunduz (New Campus)  
Ministry of Higher Education

Ministry of Rural Development

## **TECHNICAL AND ADMINISTRATIVE STAFF**

### **TECHNICAL STAFF:**

#### **General Director**

Eng. Zaman Rezai

**BSc.** And Civil from Magraw University

---

#### **Project Manager**

Harvey Kidman

BA University Of Minnesota

Masters International Relations

---

#### **Lab Manager**

Mohammad Rezai

---

#### **Lab Engineer**

Eng. Mohammad Umar Farooq

---

#### **Architect Designer**

Eng. Jamruoz Hussaini

**(BSc)** Degree Kabul Polytechnic University

---

#### **CONSTRUCTION MANAGER**

Eng. Massoud

**BSc.** Civil Engineering Poly Technic University

---

#### **Quality Control Manager**

Eng. Massoud

**BSc.** Civil Engineering

---

#### **Safety & Security Officer**

Eng. Abdul Saboor

---

#### **IT Engineer**



Eng. Fahim Habib  
Diploma in NWFP from India

---

**Road Engineer**

Eng. Fahad ul-Rahman  
**BSc** Road Engineer from Pakistan

**Site Engineer**

Eng. Jamruos Hussaini  
**(BSc)** Degree Kabul Polytechnic University

---

**ADMINISTRATION STAFF**

**Finance Manager**

Mohammd Rezai  
**(BSc)** From Kabul University

---

**Finance Assistant**

Rahim Rezai  
Graduated From Oxford Brooks University of England in Afghanistan

---

**IT Officer**

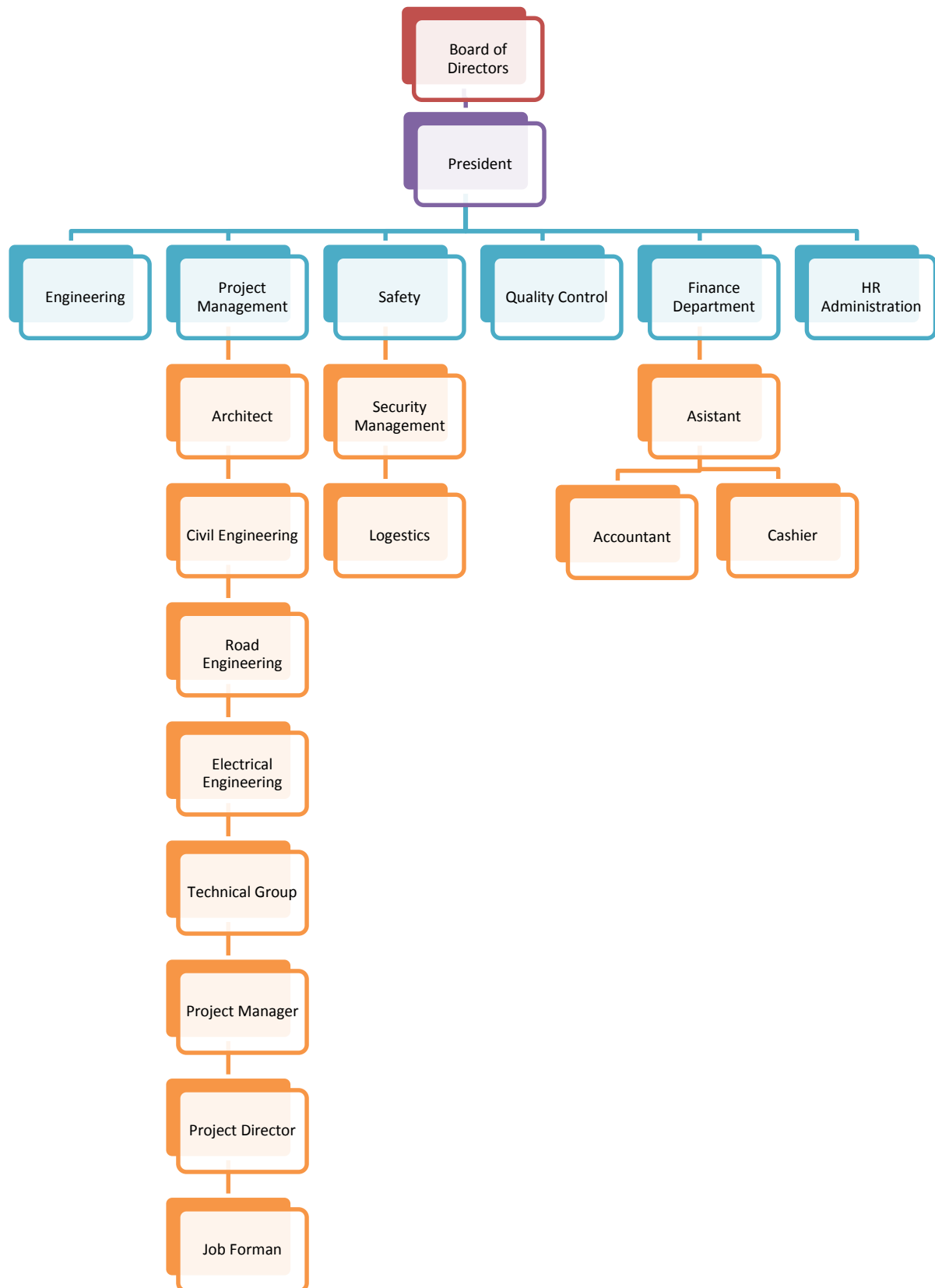
Kheyal Stanikzai  
Bachelor of computer Science

---

**Procurement Officer**

Logistics Officer  
Mohammad Bashir

---



MOHAMMAD ZAMAN

BIRTHDATE; 01-01-1964

QUALIFICATIONS; Ten years experience working in high level Project Management Positions both for National and International Organizations and Companies. Exceptional ability to work in a complex environment with foreign and multi-cultural professionals

EDUCATION;

1984-1988– Mojahid High School, Peshawar, Pakistan

12<sup>th</sup> Level High School Certificate

1984-1980 – Bazarak Secondary School, Bazarak, Panjshir, Afghanistan Secondary Level Certificate, Magraw Univercity Buissnes Management, 2010-2013

EMPLOYMENT;

1998 – 2002 – Construction Building Resources, (C.B.R.), #11 Chqutak, Chattral City, Pakistan. SITE SUPERINTENDENT

2002- 2005 – Contrak International Company, Inc. Jalalabad Road, Kabul, Afghanistan.

GENERAL SUPERINTENDENT.

2005 – Present – International Relief and Development, Inc. (I.R.D.). CTTC, Farma Hada, Jalalabad, Afghanistan. ASSISTANT PROJECT MANAGER/ U.S.A.I.D. CONTRACT

CONTINUING EDUCATION AND APPLIED SKILLS.

April, 2007 – U.S.A.I.D. Conference on “Security in Afghanistan”, Sereena Hotel, Kabul, Afghanistan. Participant

May, 2006 – U.S.Army Corps of Engineers; A seven day” Applied Construction Material Testing Seminar” taught by Dr. Reed Freeman to the CTTC Construction Material Technician at the Construction Trades Training Center”, (CTTC). Seminar Participant.

March, 2007 – U.S.Army Corps of Engineers conference on “Construction Quality Management”. Participated in presentation of “C.Q.M” instructional lecture.

May, 2007 Jalalabad, Afghanistan; Received U.S.A.C.E. Certification to control and manage the CTTC Construction Material Testing Laboratories.

December, 2007 – January, 2008, Nevada and California, U.S.A. Participated with the CTTC/U.S.A.I.D.Project Manager in excursion to the U.S.A. to review American Vocational and Technical Programs

May, 2008 Jalalabad, Afghaninstan; Working as Director of CTTC

#### LANGUAGE SKILLS;

Dari	Speak/Excellent	Write/Excellent	Read/Excellent
Pashto	Speak/Good	Write/Good	Read/Excellent
English	Speak/Good	Write/Good	Read/Good
Urdu	Speak/Good	Write/Good	Read/Good

Name: Jamrouz

Father Name: M.Ferouz

Date of birth: 1952

Place of birth Nangarhar Afghanistan.

Profession: Civil Engineering (Hydraulic structures, Road construction, Water supply Hydropower stations, Irrigation, MHP, Bridges, etc)

Knowledge of Languages

Language	Reading	speaking	writing
Pashto	Excellent	Excellent	Excellent
English	Fluent	Fluent	Very good
Russian	Fluent	Fluent	Very good
Urdo	Very good	Fluent	Good

Education:

University: From 1975 to 1980 Kabul Polytechnic institute.

High school: From 1964 to 1970 Nangarhar High school.

Primary school: From 1958 to 1964 Mia Omar Primary school.

#### Training Courses

- 1) From December 2 , 2002 to December 3, 2002. Laboratory Training (fluid Mechanic) By Securing Grade A". NWFP University of Engineering & Technology Peshawar Pk.
- 2) From November 20, 2002 to November 22, 2002 Laboratory Training (Concrete) By Securing Grade A" NWFP University of Engineering & Technology Peshawar Pk.
- 3) From November 15, 2002 to November 19, 2002 Laboratory Training (Material Testing) By Securing Grade A" NWFP University of Engineering & Technology Peshawar Pk.
- 4) From November 7, 2002, to November 14, 2002 Laboratory Training (Soil Mechanic) By Securing Grade A" NWFP University of Engineering & Technology Peshawar Pk.

- 5) From 18/02/2002 to 20/03/2002 Computer Course (Ms Word & Ms Excel, Internet) Brains. Peshawar Pk.
- 6) From April 9, 2001 to April 18, 2001 MHP Training Course. International network on small Hydropower (IN-SHP) Hangzhou City China
- 7) From March 6, 2000 to March 9, 2000 Stock Management AAD Peshawar Pk
- 8) From February 2, 2000 to March 3, 2000 Static Design, Technical Drawing, Estimation & Costing, Quality control, Stone masonry, Site problems, Technical survey, and Technical survey practice. AAD Peshawar Pk.
- 9) From February 1 1999 to February 24, 1999 Irrigation infrastructures, Development Water management practices. NWFP Agriculture University Peshawar Pk.
- 10) From September 21, 1998 to 25<sup>th</sup> September 25, 1998. Gender Awareness. CCA Peshawar Pk.
- 11) From 11/02/98 to 08/03/98. Static, Analysis, RCC. Design, CPM&PERT. AAD Peshawar Pakistan.
- 12) From <sup>November</sup> 2, 1998 to November 23, 1998. Basic management Skill & Project Planning techniques. Project managements, Three weeks. Orient institute of Business Administration and Management. Peshawar Pk.
- 13) From February 21, 1993 to March 4, 1993. Community participation. IRC/RAP Training course Peshawar Pk.
- 14) From October 6, 1991 to Oct 10, 1991. Community Participation. Save the children (UK). Peshawar Pk
- 15) From June 16, 1991 to July 25, 1991. Design and construction of Rd & Bridges. IRC. Peshawar. Pk.
- 16) From Dec. 3, 1990 to Dec. 15,. Program Management. Save the children (UK) Peshawar Pk.

Note: I am register in Army corp. of Engineering USACE/AED Kabul as a CQM instructor.

Work experience:

From Feb 20, 2008 up to date Champion Training Trade Center (CTTC) as a CQM instructor.

- From Feb 16, 2006 up to April 30, 2008 IRD/CTTC Jalalabad as a civil Engineer.

Main Responsibilities:

- Site Engineering Class Trainer
- Checking of all lab Tests
- Conducting of gradation (sieve analysis), Compaction test (Sand cone + Proctor) , Los Angeles Abrasion test, CBR, Specific gravity, Core cutting...etc.
- Inspection of PRT Projects
- Leading of lab Technicians

From 12<sup>th</sup> Feb 2004 to 16 Feb 2006 UNOPS Jalalabad PRT Engineer.

Main Responsibilities:

- Survey, Design and Monitoring of PRT Projects

From January 12, 2004 to Feb 12, 2004 as Engineering project manager MADERA Jalalabad.

Main Responsibilities

- Managing and organizing of all engineering projects

From July 15, 2002 to July 25, 2003 As quality control Engineer AAD .

Main Responsibilities

- Compression test of cement (mark of cement)

- Compression test of concrete (mark of concrete)

- Material test (test of steel bars in tension)

- Test of bearing capacity of soil.

- Sieve analysis of soil.

- Report of test results to related places.

Training of site engineers (slump test, sieve analysis, quality of construction Materials ...).

From August 4, 1997 to July 15, 2002 as site Engineer , Senior Site Engineer & PCI Chief Engineer in BDK, Nuristan (NRT). AA

Main Responsibilities:

- Implementing of projects according to design and budget.

- Managing, controlling, planning, organizing, supervising, designing, surveying of projects.

- Monthly progress report writing.

Note:

It's worth's mentioning that in the mentioned time I implemented two bridge with clear span 20m(Station 12 Bridge in Badakhshan and Hormore Bridge in nooristan) beside other projects like Retaining walls, RD Improvement, washes, Culverts, Water Supply, Irrigation Canals, MHP Stations, .....etc .

DHSA (Development Humanitarian service for Afghanistan) From July 1, 1996 to May 31, 1997.(As Design Engineer)Peshawar Pk.

Main Responsibilities

- Technical survey of all engineering projects.

- Design of all engineering projects.

AREA (Agency for Rehabilitation &Energy conservation for Afghanistan) From January 1993 to December 1995 (As Site Engineer, Site Supervisor, regional manager).

Main Responsibilities:

- Implementing of projects.

- Planning, organizing, supervising, controlling, monitoring and evaluation of all Projects. -Monthly progress report.

GTZ/DESP (Domestic Energy Saving project) from 1989 to1993 (As District officer, Site Engineer)

Main Responsibilities:

As mentioned above

From 1982 to1989 Nangarhar valley Development projects (As Site Engineer, Chief Engineer) Nangarhar Afghanistan.

Main Responsibilities:AS mentioned above.

Note:

In this period I experienced construction of electrical sub station, two number 1000 m<sup>3</sup> water reservoir, building construction, roofing, flooring water supply, Canalization, construction of different fabricated RCC elements ....etc.

From 1980 to1982 Badam Bough (Speen ghar) Construction unit Kabul Afghanistan. (As Chief Engineer)

Main Responsibilities: As mentioned before.

Note: It is worth's mentioning that I have skill of sap-2000 too. (Computer program),Primavera, Etab

Contact persons:

1. Qais Translator in CNAT Office in Jalalabad Mobile# 0797506806
2. Dr.ZIA Pharmacist of Public Health Hospital

S/No	Description.	Make.	Qty
<b>A</b>	<b>Sieve Analysis.</b>		No.
1	Brass Sieves 12 " dia of size 3 ", 2-1/2", 2" , 1-1/2", 1", 3/4 ", 1/2", 3/8".# 4 ,Pan and cover	KBL	10
*	S.S. Sieves 12 " dia of size 3 ", 2-1/2", 2" , 1-1/2", 1", 3/4 ", 1/2", 3/8".# 4 ,Pan and cover	ELE	10
	<b>Fine Sieves</b>		
2	8" dia Sieves of size 3/4" , 1/2" , 3/8".# 4,8,10, 16, 30, 40, 50, 80, 100 & 200 ,Pan and cover.	KBL	14
*	8" dia Sieves of size 3/4" , 1/2" , 3/8".# 4,8,10, 16, 30, 40, 50, 80, 100 & 200 ,Pan and cover.	ELE	14
	<b>Washing Sieves</b>		
3	Wet Washing Sieve 8" dia # 200.	KBL	2
*	Wet Washing Sieve 8" dia # 200.	USA	2
4	Sieve Shaker for 8" & 12" dia sieves.	KBL	1
<b>B</b>	<b>Hydrometer Analysis.</b>		
	<b>Particle size analysis Hydrometer Method)</b>	ITALY	1 Set
1	Hydrometer Jar.		6
2	Rubber Bung		1
3	Soil Hydrometer 151 H		1
4	Glass Thermometer 50 C.		1
5	Constant Temperature water bath.		1
6	High Speed Stirrer.		1
7	Sodium Hexametaphosphate.		1 kg
8	Mixing Paddle for stirrer.		1
9	Soil dispersion cup and baffle.		1
<b>C</b>	<b>ATTERBERG LIMITS</b>		
*	<b>Liquid Limit Set. As per ASTM D-423</b>		1 set
a)	Liquid Limit Device Hand Operated.	KBL	1
b)	Grooving Tool.	KBL	1
c)	China dish 250 cc	China	1
d)	Spatula 4"	KBL	1
e)	Glass Cylinder 100 cc	China	1
f)	Moisture Can 70 mm * 25 mm	Local	12
2	<b>Plastic Limit Set As per ASTM D-424.</b>		1 set
a)	Plastic Limit Plate.	Local	1
b)	China Dish	China	1
c)	Spatula 4"	KBL	1
d)	Glass Cylinder 25 cc	Pyrex	1
e)	Moisture Can 50 mm * 25 mm	Local	12
f)	Rod comparator.	Local	1
4	Wash Bottle. 500ml	Local	2
	Alternative		
*	Wash Bottle. 100ml	Controls	2



*	Wash Bottle. 250ml	Controls	2
*	Wash Bottle. 500ml	Germany	3

#### D Modified compaction

1	Straight Edge.	KBL	3
2	Scoop Alu. Large.	KBL	3
3	Scoop Alu Small.	KBL	3
4	Mixing Spoon.	KBL	3
5	Modified Compaction Hammer. 10 lbs.	KBL	2
6	Modified Compaction Mould 6" dia.	KBL	2
7	Standard Compaction Hammer.	KBL	2
8	Standard compaction Mould.	KBL	2
9	preparation Knife	KBL	2
10	Rubber Mallet.	China	2
11	Spatula 100mm	KBL	2
12	Mixing Tray 24" * 24" * 3"	KBL	2

#### E Laboratory CBR

1	Soaking Tank 30" * 41" * 15"	KBL	1
2	CBR Mould 6" dia with collar, Base plate.	KBL	9
3	Filter paper 6"	KBL	5 pkt
4	Swell plate	KBL	9
5	Surcharge Weight	KBL	9
6	Surcharge Weight slotted	KBL	18
7	Tripod attachment	KBL	9
8	Dial indicator	china	9
9	Spacer Disc	KBL	3
10	CBR Loading press motorized	KBL	1
a)	Penetration Piston	KBL	1
b)	Penetration Gauge.	japan	1
c)	Bracket & Adoter for CBR Penetratin.	KBL	1
d)	Proving Ring 50KN.	ELE	1
11	Straight Edge.	KBL	3

#### F Field Density Test.

1	<b>Sand cone set</b> complete with the followings:-	KBL	5
a)	Sand cone 6" dia.		
b)	Base Plate.		
c)	Plastic Bottle.		
2	Spoon Large.	KBL	2
3	Plastic Bag.	KBL	3 kg
4	Chisel 12"	KBL	4
5	Hammer 2.5 lbs.	KBL	2
6	Digital Balance 30kg * 1g with	China	2
7	wooden Box.	KBL	2
8	Sieve 8" dia wire mesh # 16	KBL	1
9	Sieve 8" dia wire mesh # 30	KBL	1
10	Sand Calibration Measure.	KBL	1

11	Speedy Moisture Tester 20g ,20%	UK / USA.	1
12	Calcium Carbide.450g / Tin.	KBL	2
13	Plastic Bottle for FDT spare.	KBL	2

**G Aggregate.**

1	Digital <b>Los Angeles Abrasion</b> Machine complete with abressive charges,receiving Tray.	KBL	1
2	Sound Reduction Cabnit.	KBL	1
3	Sand Absorption cone & Tamper.	KBL	2
4	Density Basket.	KBL	2
5	Flakiness Gauge.	KBL	1
6	Elongation Gauge.	KBL	1

**Soundness Loss Test set.**

7	Sieve 8" dia mesh # 5	KBL	1
8	Sieve 8" dia mesh 1-1/4"	KBL	1
9	Sieve 8" dia mesh 5/8"	KBL	1
10	Sieve 8" dia mesh 5/16	KBL	1
11	Unit weight ,5 L ,10 , 14 , 28	KBL	1
b)	Tamping Rod.	KBL	1
13	Specific Gravity Bottle. 25ml	china	2
14	Specific Gravity Bottle. 50ml	china	2
15	Pycnometer 500ml	KBL	2

**Sand Equivalent Test Set.**

16	Sand Equivalet set.	USA	1
17	Stock Solution.	KBL	10
18	Sand Equivalent Shaker.	KBL	1
19	Gilson Sample Splitter.	KBL	1
20	Sample splitter 2"	KBL	1
21	Sample splitter 3/4"	KBL	1

**H CONCRETE.**

1	<b>Digital Compression Testing Machine,</b> Capacity 2000KN,without Distance Piece.	ELE	1
1	Distance Pieces	KBL	2
2	Curing Tank Heater.	KBL	3
3	Cylinder Mould Heavy duty 6" dia.	KBL	30
5	Tamping Rod for Cylinders.	KBL	4
6	Spanner for Cylinders.	Local	4
7	Cylinder capping apparatus for 6" dia Moulds.	KBL	1
8	Concrete capping compound.	KBL	500 kg
9	Capping warmer.	KBL	2
10	Cube Mould 150mm *150mm *150mm cast Iron	KBL	30
12	Tamping Rod for Cubes.	KBL	4
13	3-Gang Mould 3" * 3" * 3" cast Iron	KBL	5
14	Tamping Rod for Cubes3"	KBL	3
15	Slump Test Apparatus.	KBL	3

a)	Slump cone.	KBL	
b)	Base plate.	KBL	
c)	Tamping Rod.	KBL	
16	Straight edge.	KBL	3
17	Dial thermometer 50°C	China	3
18	Air Entrainment Meter.	USA	1
19	Schmidt Hammer	Italy	1

### CEMENT TESTING.

#### Setting Time & Consistency of Cement

2	<b>Flow Table</b> Hand operated complete with Brass Mould Cup.	KBL	1
3	Vicat Apparatus complete with Needles.	KBL	1

#### Specific Gravity Test.

4	Le Chatelier Flask.	USA	2
---	---------------------	-----	---

#### Soundness of Cement.

5	Le Chatelier Mould.	KBL	6
6	Glass Plate.	KBL	6
7	100 g weight.	KBL	6
8	Plastic Stand	KBL	3

#### Finess of Cement.

11	Blain Apparatus.	ELE	1
----	------------------	-----	---

### Asphalt

1	<b>Marshall Stability Machine.</b>		1
	a) Load Frame 50KN.	KBL	1
	b) Load Ring 28 KN.	ELE	1
	c) Flow meter	KBL	1
	d) Breaking head 4" dia.	KBL	1

#### Marshall Mould 4" dia

2	Asphalt Compaction Mould 4" dia	KBL	18
3	Base Plate for Marshall Mould.	KBL	3
4	Collar for Marshall Mould.	KBL	3
5	<b>Automatic Marshall Compactor</b> for 4" dia Moulds	KBL	1
a	Spare hammer for 4" dia mould.	KBL	1
*	Asphalt Compaction Pedestal complete with	KBL	1
	a) Compaction Mould.	KBL	
	b) Asphalt Compaction Hammer 4" dia.	KBL	
	c) Mould holder assy.	KBL	
6	Digital Water Bath for 4" dia mould	Italy	1
7	<b>Asphalt Centrifuge Extractor</b> Extraction Machine, capacity 3000 gm	China	1
8	Filter Paper .	Italy	5
9	<b>G.M.M.Apparatus</b> comprises of		1
a	Vacuum Pycnometer,	KBL	1
b	Vacuum Pump electric	KBL	1

10	Asphalt Sample Extruder for 4" dia	KBL	1
11	Pavement Core Drilling Machine. with 6 hp engine without Bit.	KBL	1
12	Core Bit 4" dia	KBL	2

**K General**

	<b>Laboratory Oven</b>		
1	Capacity 108 Ltr.Memmert	Germany	1
2	Capacity 256 Ltr.Memmert	Germany	1
	<b>Hot plate.</b>		
3	Hot plate. 150mm dia	China	2
	<b>Mixing Bowls</b>		
4	Mixing Bowl.8" dia.	KBL	18
5	Mixing Bowl.10" dia.	KBL	12
	<b>Digital Thermometer.</b>		
6	Mini Thermometer -50 to 250°C,	China	6
	Digital thermometer complete with Probe.	Taiwan	1
	<b>Trowel</b>		
7	Trowel Large.	KBL	2
8	Trowel Small.	KBL	2
	<b>Digital Balance.</b>		
9	Digital Balance Capacity 15kg * 0.5g	China	1
10	Digital Balance Capacity 30kg * 1g	China	1
11	Digital Balance with Local Platform 100 Kg	China	1
12	Digital Balance Capacity 6kg * 0.1g	Imported	1

**Mechanical Balances.**

13	Solution Balance. Capacity 20kg * 1g ,	OHAUS	1
14	Triple beam Balance. Capacity 2610g	OHAUS	1
15	Cento Gram Balance. Capacity 311g,	OHAUS	1
16	Stop watch	Imported	1
17	Vernier caliper 300mm	china	1
18	Maximum - minimum thermometer.	Zeal	2

**Aluminium can with cover**

19	size 90mm * 55mm	KBL	48
20	size 70mm * 45mm	KBL	48
21	size 70mm * 25mm	KBL	24

**Scoops.**

22	Sand scoop (Alu.) large.	KBL	6
23	Sand scoop (Alu.) small.	KBL	6

**Brush.**

24	Brass Brush .	KBL	20
25	Wire Brush ,Coarse	KBL	3
26	Wire Brush ,Fine	KBL	3

**Trays (G.I.Sheet)**

27	Size 9" * 12" * 2"	KBL	5
28	Size 12" * 12" * 2"	KBL	5

29	Size 12" * 18" * 3"	KBL	5
30	Size 24" * 18" * 3"	KBL	5
31	Size 24" * 24" * 3"	KBL	5
32	Mortar Porcelin 200 mm with pestle.	Local	1

**Gloves.**

33	Rubber Gloves.	Local	4
34	Asbestos Gloves.	Local	10
35	Cotton Gloves.	Local	10

**Measuring Cylinders**

36	Plastic Cylinder 1000 ml	Germany	2
37	Plastic Cylinder 500 ml	Germany	2
38	Plastic Cylinder 250 ml	Germany	2
39	Plastic Cylinder 100 ml	Germany	2
40	Glass Cylinder 100 ml	china	3
41	Glass Cylinder 100 ml	china	3

**Chemicals**

42	Sodium Sulphate Anhydrous 2.5kg / pack	Germany	1
44	Sodium Hexametaphosphate (Reidel) 1 Kg Pack	Germany	1
	<b>Volumetric Flask.</b>		
49	Volumetric Flask 100ml	PYREX	2
50	Volumetric Flask 500ml	PYREX	2
51	Volumetric Flask 1000ml	PYREX	2
	<b>Spatula.</b>		
52	Spatula 100mm blade (Local, Wooden Handle)	Local	6
53	Spatula 200mm blade (Local, Wooden Handle)	Local	6

**Beaker.**

56	Beaker 100ml Pyrex	PYREX	4
57	Beaker 250ml Pyrex	PYREX	4
58	Beaker 500ml Pyrex	PYREX	4
59	Reagent Bottle	China	2
63	Hand Pic.	Local	2

## Geotechnical Test

1	Rotary drilling
2	Standard Penetration Test(SPT) ASTM D1586
3	Field Density Test(ASTM D-1556)
4	Percolation Test(ASTM D-5333)
5	Complete Geotechnical Report and Recommendation etc
6	Atterberg Limits (ASTM D 4318)
7	Sieve Analysis for Soil Particales Size Distribution(ASTMD1140)
8	Soil Classification ASTM D (2487)
9	Natural Moisture Content (ASTM D 2216)
10	Partical sizw Distribution (Gradation)of soil Using Sieve AnalysisASTMD422
11	Specific Gravity of Soil By Pycnometer(ASTM D-854)
12	Direct Shear Test (ASTM D 3080 )
13	Modified Proctor testASTM 1557
14	California Bearing Ratio(CBR)(ASTMD-1883)
15	Unconfined Compressive strength (ASTM D 2166)
16	Soil Chemical Test(ASTM D-516)
17	One Dimensional Consolidation Test(ASTM 2435)
18	Sulphate Content,Coloride Content and PH

## SOILS

### Test Method

### Test Procedure Title

ASTM D 421	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination Of Soil Constants
ASTM D 422	Particle-Size Analysis of Soils
ASTM D 698	Laboratory Compaction Characteristics Of Soil using Standard Effort
ASTM D 1140	Amount of Material in Soils Finer than the No 200 (75-um) sieve
ASTM D 1556	Density and Unit Weight of Soil in Place by Sand Cone Method
ASTM D 1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D 1883	CBR (California Bearing Ratio) of Laboratory Compacted Soils
ASTM D 2216	Laboratory Determination of Water (Moisture ) Content of Soil and Rock by mass
ASTM D 2487	Classification of Soils for Engineering Purposes
ASTM D 4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D 4643	Determination of Water (Moisture) Content of Soil By the Microwave Oven Heating
AASHTO T 93	Determining the Field Moisture Equivalent of Soils
AASHTO T 224	Correction for Course Particles in The Soil Compaction Test

## AGGREGATES

### Test Method

### Test Procedure Title

ASTM C 29	Unit Weight and Voids in Aggregate
ASTM C 70	Surface Moisture in Fine Aggregate
ASTM C 117	Material Finer than 75 um (No. 200)
	Sieve in Mineral Aggregates by Washing
ASTM C 127	Specific Gravity and Absorption of
	Coarse Aggregate
ASTM C 128	Specific Gravity and Absorption of Fine
	Aggregate
ASTM C 131	Resistance to Degradation of Small
	Size Course Aggregate by Abrasion
	And Impact in the Las Angeles
	Machine
ASTM C 136	Sieve Analysis of Fine and Course
	Aggregates
ASTM C 535	Resistance to Degradation of Large
	Size Course Aggregate by Abrasion
	And Impact in the Las Angeles
	Machine.
ASTM C 566	Total Moisture Content
ASTM C 702	Reducing Samples of Aggregate to
	Testing Size
ASTM D 75	Sampling Aggregates
ASTM D 4791	Flat Particles, Elongated Particles,
	or Flat and Elongated Particles in
	Course Aggregate
ASTM D 5821	Determining the percentage of
	Fractured Particles in Course

Aggregate



CRD C 171	Standard Test Method for Determining percentage of Crushed Particles in Aggregate
BS 812 Section 105.1	Testing Aggregates, Methods for Determination of Particle Shape Flakiness Index
BS 812 Section 105.2	Testing Aggregates, Methods for Determination of Particle Shape Elongation Index for Course Aggregate

## **CEMENT, GROUT, MORTAR & CONCRETE**

Test Method	Test Procedure Title
ASTM C 31	Making and Curing Test Specimens in the Field
ASTM C 39	Compressive Strength of Cylindrical Specimens
ASTM C 138	Unit Weight & Air Content by Gravimetric
ASTM C 143	Slump of Hydraulic-Cement Concrete
ASTM C 172	Sampling Freshly Mixed Concrete
ASTM C 192	Making & Curing Test Specimens in the Laboratory
ASTM C 470	Molds for Forming Concrete Test Cylinders Vertically
ASTM C 511	Moist Cabinets, Moist Rooms, Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
ASTM C 617	Capping Cylindrical Concrete Specimens
ASTM C 1064	Temperature of Freshly Mixed Portland Cement Concrete
ASTM C 1077	Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation

## ASPHALT CEMENT & ASPHALT CONCRETE

Test Method	Test Procedure Title
ASRM D 5	Penetration of Bituminous Materials
ASTM D 36	Softening Point of Bitumen (Ring & Ball Apparatus
ASTM D 70	Density of Semi-Solid Bituminous Materials (Pycnometer Method)
ASTM D 92	Standard Test Method for Flash & Fire By Cleveland Open Cup Tester
ASTM D 140	Sampling Bituminous Materials
AASHTO T 182	Coating and Stripping of Bitumen-Aggregate Mixtures

## BRICKS, STONE & CONCRETE MASONRY UNITS

Test Method	Test Procedure Title
ASTM C 67	Sampling and Testing Brick & Structural Clay Tile
ASTM C 97	Absorption & Bulk Specific Gravity of Dimension Stone
ASTM C 140	Samples and Testing Concrete Masonry Units and Related Units

## Water

Test Method and Test Procedure Title
Water Chemical Analysis

Serial No	CONCRETE
1	Sampling of Freshly Mixed Concrete
2	Casting Concrete Cylinders
3	Slump Test and Temperature of Fresh Concrete on Site
4	Density & Air Content of Fresh Concrete
5	Casting of Cubes 50mmx50mmx50mm (Set of 6)
6	Compressive strength test for cylinders
7	Compressive Strength test for Cubes
8	Compressive Strength test for Cubes
9	Concrete Mix Design Set (includes Sieve, Compression, Spec Gravity, Absorption, Unit Weight LA Abrasion)
10	Compressive Strength of Cement/ Concrete Mortars
11	Compressive Strength of Concrete Masonry Units
12	Mortar/ Plaster Mix Design Set (includes Sieve, compression, Spec. Gravity, Absorption etc)
13	Concrete Strength Test by Schimith Hammer
14	Petrography Examination of Hardened Concrete

Serial No	ASPHALT (AS)
1	Asphalt mix Design ( <b>Job Mix Formula</b> )
2	Density and Thickness of Asphalt Cores
3	Preparation of Asphalt Specimens by Marshall molding (set of 6 specimens)
4	Flow, Stability and Loss in Stability (set of 6 specimens)
5	Bulk Specific Gravity of Compacted Mix (set of 6 specimens)
6	Bulk Specific Gravity of Mix (Gmm) & Air Voids
7	Extraction Gradation of Asphalt
8	Asphalt Coring by Diamond Core bit Machine
9	Grade Penetration of Bituminous Material
10	Softening of Bitumen (Ring & Ball Apparatus)
11	Density of Bitumen
12	Flash & Fire point by Cleaveland open Cup
13	Grade Penetration ,Softening point ,Flash & Fire Point ,Loss on Heating %, Solubility %
14	Ductility , Specific Gravity and Viscosity test ( <b>Complete testing Set</b> )

Serial No	AGGREGATES (AG)
1	Specific Gravity and Absorption or Coarse Aggregate
2	Specific Gravity and Absorption or Fine Aggregate
3	Unit Weight and Voids in Aggregate
4	Fine Material Content passing Sieve No.200
5	Sieve Analysis Coarse & Fine Aggregate
6	Moisture content coarse & fine Aggregate (Speedy Test)
7	Total Moisture Content of Aggregate by Drying
8	Los Angeles Abrasion of Aggregates
9	Flat Particles, Elongated Particles... / Flakiness Index
10	Sampling Aggregates
11	Soundness Test of Aggregate
12	Sand Equivalent Test
13	Petrography of Aggregate (Complete analysis)
14	Petrography of Sand (Complete analysis)

Serial No	Soil Tests
1	Atterberg Limits
2	Field Densities using Sand Cone test
3	Manual sampling of Soil (2 m depth max.)
4	Moisture Content - drying method
5	Moisture-Density Relationship (Proctor Standard)

6	Moisture-Density Relationship (Proctor Modified)
7	Sieve Analysis of soils (wash)
8	California Bearing Ratio (CBR) Complete Test (Proctor Gradation)
9	Classification of Soils for Engineering Purposes (including Sieve Analysis and Atterberg Limits)

Serial No	HYDRAULIC CEMENT TESTS (HC)
1	Compressive strength of Hyd. Cement
2	Normal Consistency and Flow
3	Finess of Cement
4	Setting Time of Cement
5	Microscopy examination, Chemical analysis & Physical test

	BRICKS AND CONCRETE MASONRY UNITS
1	Sampling of Bricks and Structural Clay Tile
2	Absorption of Bricks and Structural Clay Tile
3	Strength of Bricks and Structural Clay Tiles
4	CMU Absorption Test

Serial No	Steel Tests
1	Unit weight
2	Ultimate Tensile Strength
3	Elongation Test
4	Surface Crack Bend Test

Serial No	Water Tests
1	Chemical Analysis for Construction Works (Complete Testing)
2	Chemical and Biological Analysis for Drinking Water (Complete Testing)

**Geo-Tech Investigation**

1	Plate load Test for Pavement Design
2	Geo-Tech Investigation for Design Bearing Capacity of Building and Bridge

Serial No	All testing Procedure Basis on ASTM , AASHTO Standards
-----------	--

Serial No	Steel Tests
1	Unit weight
2	Ultimate Tensile Strength
3	Elongation Test
4	Surface Crack Bend Test

جمهوری اسلامی افغانستان  
وزارت تجارت و صنایع  
ریاست عمومی ثبت مرکزی و مالکیت فکری



د افغانستان اسلامي جمهوریت  
د سوداګرۍ او صنایعو وزارت  
د مرکزي ثبت او فکري مالکیت لوی ریاست

Reg #: 14292  
License #: D-33099

Islamic Republic of Afghanistan  
Ministry of Commerce and Industries  
Directorate General of Central Business Registry & Intellectual Property

د ثبت نمبر: ۱۴۲۹۲  
د جواز نمبر: D-۳۳۰۹۹

نمبر تشخیصیه مالییه / TIN  
9001225292



جواز ثبت  
Business License

لاپراتوار مواد ساختمانی کلاسیک  
(CMTC)



مرستیال / V-President  
محمد مرزا



رئیس / President  
محمدزمان

تصدیق کیږي دا جواز چې نوم یې پورته یاد شوی دی د افغانستان د نافذه قوانینو پر بنسټ ثبت او صادر شو.  
تصدیق میږدد این جواز که نام آن در فوق ذکر میباشد, در مطابقت با قوانین نافذه افغانستان ثبت و صادر گردیده است.

It is certified that this license with mentioned name, is registered and issued in accordance with and subject to the effective laws of Afghanistan.

د صدور نیټه: ۱۳۹۵/۱۱/۱۱ 30/Jan/2017  
د پای نیټه: ۱۳۹۸/۱۱/۱۰ 30/Jan/2020  
د تاسیس کال: ۱۳۸۸ 2009  
سکتور فعالیت: فعالیت های مسلکی، علمی و تخنیکي

ادرس شرکت: چهارراهی حاجی یعقوب، مرکز کابل، کابل

طارق احمد سرفراز  
Tariq Ahmad Sarfaraz

08707

نمبر مسلسل:  
قیمت حق الطبع (۵۰۰) افغانی