AN INDEPENDENT MATERIAL TESTING LABORATORY ISO/IEC 17025-2017 Certified



# Pre-Qualification Document



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#### **DOHA TECHNICAL LABORATORIES**

(An Independent Material Testing Laboratory)
ISO/IEC 17025:2017 - CERTIFIED

**SOIL** 

**AGGREGATE** 

**ASPHALT** 

**BINDER** 

**CONCRETE** 

CEMENT

**STEEL** 

ROAD MARKING

CHEMICAL & PHYSICAL ANALYSIS

**GEOTECHNICAL INVESTIGATION** 

**GEOTEXTILE & MEMBRANE** 

**PLASTICS** 

**MICROBIOLOGY** 

ENVIRONMENTAL

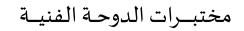
**NON-DESTRUCTIVE TESTS** 

PILE TESTING

**GEOPHYSICAL SURVEYS** 

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مختبرات الدوحة الفنية

# **INTRODUCTION**



مختبرات الدوحة الفنية

#### I - Overview

Over the past 25 years, Doha Technical Laboratories (DTL) has earned a reputation for delivering service excellence of all contractors, local authority & government bodies. Doha Technical Laboratories (DTL) is an independent 3rd party material testing and commercial laboratory which is certified by Qatar General Organization for Standardization.

Constantly evolving the needs of our customers & partners play a major in dividing and shaping our services which are provided by our qualified engineers, technicians and managers.

DTL has carried out hundreds of projects for its clients in the State of Qatar. All our projects regardless of sizes are approached with the expertise in technology and equipment requirement to meet the client's needs.

Laboratory systems were divided into two sections:

- Third party material testing
- Geotechnical studies & Investigation

#### Third Party Material Testing

Doha Technical Laboratories (DTL) specialize in catering the needs of laboratory test for Physical, Chemical and Mechanical Testing (Aggregate, Rock, Soil Concrete, Cement, Cementitious Materials, Steel, Geotextile Membrane, Plastic Asphalt, Bituminous Pavement, Road Marking, UPVC/UP/HDPE/Clay Pipe, Admixture, Manhole Cover, Masonry Block, Kerbstone, Tiles, Flag), Environmental Tests (Soil & Water), In-Place Nuclear Gauge Density Test, Air Quality Monitoring, Noise Monitoring, Non Destructive Test for Concrete & Steel, Mix Design for Asphalt & Concrete, Pile Testing.for various contracting firms in the State of Qatar as well as in the overseas clients around the globe. We are accredited to ISO/IEC 17025 and about 425 tests parameters and still expanding to meet the needs and demands of our respectable clients. We have qualified and experienced engineers that supervise full time in DTL and its technicians are suitable and qualified to carry out tests in accordance with recognized testing standards. All laboratory equipment are of well-known manufacturer and in accordance to BS / ASTM / APHA / AASHTO / USEPA / Other international standards with valid calibration certificates which are done in a timely manner.



## مختبرات الدوحة الفنية

Our reputation speaks for itself: DTL is the leading testing laboratory across the Middle East, known for producing the most accurate results in clear, concise manner, complete and reproducible reports on time. Using the latest technology of field and lab equipment from USA and Europe, our experienced team offers multiple testing approaches so that our customer's unique needs are met, no matter how complex. DTL is your independent laboratory choice because we offer competitive price packages, the ability to work under tight deadlines, the capacity to handle any volume of routine and /or specialized testing and the proactive approach to customer service. With DTL, you deal directly with the trained and experienced staff who handle your specific project from procurement process to operation activity.

The scope of services of Third party material testing department are:

- Design and implement of Quality Control program for construction projects.
- Supply of testing equipment and management of site lab
- On site material testing
- Preparing periodically Quality Control reports.
- Design and implementation of quality control programs for manufacturing facilities such as:
  - Asphalt production plants
  - Precast units plants
  - Blocks and tiles factory
  - Ready mix concrete plants
    - Evaluate material quality
    - Prepare technical specifications for material

#### **MAJOR LABORATORY SERVICES**

All routine testing is predominantly carried out to British Standards through European & American Standards and Equivalents are also performed.

#### **SOIL**

- Particle size distribution
  - Sieve analysis
  - Hydrometer
- Moisture content
- > Bulk and dry density
- Specific gravity
- Liquid and Plastic Limit
- Proctor compaction
  - 2.5kg
  - 4.5kg



## مختبرات الدوحة الفنية

- ➤ CBR
  - Unsoaked
  - Soaked
  - In-situ
- > Field Density Test (by using Nuclear Gauges)
- > In-situ Density by Sand cone replacement method
- Plate Bearing Capacity
- > Triaxial Test
- Direct Shear
- Chemical analysis including
  - Sulphate
  - Chloride
  - pH

#### **AGGREGATE**

- > Sieve analysis
  - Fine
  - Coarse
- Fines passing No.200
- Clay, silt and dust
- Clay lumps and friable particles
- Moisture content
- Unit weight
- Specific gravity
- > Water absorption
- > Flakiness index
- > Elongation index
- > Shell content
- Organic matter
- > ACV
- > 10% fines
- > AIV
- > Los Angeles abrasion
- Potential alkali reactivity
- Soundness (Mg, Na)
- > Sand equivalent



## مختبرات الدوحة الفنية

- > Chemical analysis, including
  - Sulphate
  - Chloride

#### **ROCK**

- > Thermal conductivity
- Uniaxial Compressive strength
- Point load test
- > Light weight deflectometer

#### **CONCRETE**

- Compression strength and water absorption
  - Cubes
  - Cylinders
  - Cores
  - Blocks
  - Interlocking Tiles
  - Terrazzo Tiles
  - Kerbs
- Indirect tensile strength
- > Flexural Strength Tests
- Concrete Durability tests
- Porosity
- > Chloride ion permeability
- Mix design Verification
- Chemical analysis including:
  - Sulphate
  - Chloride

#### **CEMENTATIOUS MATERIALS**

- > Strength Tests
- Setting Time
- Density
- > Fineness test
- Strength Activity Index
- > Chemical Composition



## مختبرات الدوحة الفنية

#### **ASPHALT**

- > Sampling of Bituminous Paving Mixture
- > Test Method for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures
- Test Method for Size Analysis of Extracted Aggregate
- Preparation of Asphalt Mixture Specimens Using Marshall Apparatus
- Test Method for Theoretical Max Specific Gravity(GMM) and Density of Bituminous Paving Mixture
- Specimen Preparation & Test of Bulk Specific Gravity & Density of Compacted Bituminous Mixture Using Coated Sample Method, Height Measurement, Percent Air Voids, and Marshall Stability & Flow
- > Specimen Preparation & Testing of Bulk Specific Gravity & Density of Compacted
  Asphalt Mixture Using Automatic Vacuum Sealing Method, Height Measurement, Percent
  Air Voids, and Marshall Stability & Flow
- > Test Method for Indirect Tensile Strength (IDT) of Compacted Asphalt Mixture (in Kpa)
- > Test Method for Effect of Moisture on Asphalt Concrete Paving Mixture (TSR)%
- > Test Method for Resistance to Plastic Flow of Bituminous Mixture Using Marshall Apparatus (6 inch-Diameter Specimen)
- > Bulk Specific Gravity & Density of Non Absorptive Compacted Asphalt Mixture
- > Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens
- Test Method for Percent Air Voids in Compacted Asphalt Mixture
- > Test Method for Preparation and Determination of the Relative Density of Hot Mix Asphalt Specimens (HMA) by Means of the Superpave Gyratory Compactor
- > Test Method for Moisture in Asphalt Mixture
- Test Method for Effect of Water on Bituminous Coated Agg by Boiling Water
- Test Method for Determination of Percent Air Voids at 400 Blows for 4" Marshall Specimens
- > Test Method for Determination Retained Stability Test of 4" Marshall Specimens
- Test Method for Rapid Drying of Compacted Asphalt Specimen Using Vacuum Drying Apparatus
- > Test Method for Recovery of Asphalt from Solution using the Rotary Evaporator
- > Test Method for Mixture Conditioning of HMA for Laboratory Testing
- > Test Method for Hamburg Wheel Track Testing of Compacted Asphalt Mixtures



## مختبرات الدوحة الفنية

#### Bitumen

- > Sampling of Asphalt Materials
- Test Method for Determination of Asphalt Viscosity at Elevated Temperatures Using a Rotational Viscometer
- > Test Method for Determination of Mixing and Compacting Temperature of Asphalt Binder based on Rotational Viscosity
- > Test Method for Flash & Fire Points of Bituminous Materials by Cleveland Open Cup
  Tester
- Test Method for Specific Gravity and Density of Semi-Solid Asphalt Binder (Pycnometer Method)
- > Test Method for Penetration of Bituminous Materials
- > Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
- Test Method for Ductility of Asphalt Materials
- > Test Method for Solubility of Asphalt Materials in Trichloroethylene
- > Test Method for Float Test for Bituminous Materials
- Test Method for Kinematic Viscosity of Asphalts
- Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer
- > Test Method for Loss on Heating of Oil and Asphaltic Compounds
- Test Method for Effect of Heat & Air on Asphaltic Materials (Thin-Film Oven Test)
- > Test Method for Retained Penetration on Residue After (TFOT) / Distillation
- > Test Method for Ductility on Asphalt Materials (Residue)
- $\succ$  Test Method for Rheological Properties ( $G^*/\sin\delta$ ) at Grade Temperature of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
- > Test Method for Solubility of Asphalt Binders in Toluene By Centrifuge
- > Test Method for Loss of weight for solubility residue
- Test Method for Determining The Separation Tendency of Polymer from Polymer Modified Asphalt by Absolute Difference Between (G\*@76°c) of Top & Bottom Specimen by (DSR)
- > Test Method for Effect of Heat and Air on a Moving Film of Asphalt (RTFO Test)
- > Test Method for Sieve Test of Asphalt Binder
- > Test Method for Rheological Properties (G\*/sinδ) at Grade Temperature of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)
- > Test Method for Grading of Asphalt Binder Using a Dynamic Shear Rheometer (DSR) at Different Temperature Until True Grade Temperature Obtained



## مختبرات الدوحة الفنية

#### **CHEMICAL**

- ▶ pH
- Sulphate
- Chloride
- > Loss on ignition
- Calcium Carbonate
- > Calcium sulphate
- > Sodium
- Potassium
- Complete analysis
  - concrete
  - cement
  - aggregate
  - water / wastewater
  - soil/sediment
  - sludge
  - asphalt
  - steel
  - · road marking
- Sampling
- > Agricultural Soil
- Coliform/ Fecal Coliform
- Gas chromatography-mass spectrometry

#### ROAD MARKINGS, PAINTS AND TRAFFIC SIGNS

- Softening point of thermo plastic material
- Binder content of thermoplastic material
- > Wet film thickness by nuclear gauge
- No-pickup time of traffic point (Drying time wheel)
- Measurement of rectroeffective
- Measurement of rectroeffective pavement marker (road stud) using portable retroreflectometer
- Determination of layer thickness
- Skid resistance
- Pull off test
- Luminance Factor



## مختبرات الدوحة الفنية

#### **STEEL**

- > Determination of tensile properties of steel bar, Anchor Bolt
- Bending and Re-bending test
- > Chemical Analysis
- Coating Thickness
- ➢ Holiday Spark Tester
- > Manhole Cover Testing

#### **GEOTEXTILE & PLASTICS**

- Breaking Strength
- Puncture Resistance
- Nominal Thickness
- CBR Test
- ➤ Wide Width tensile Test
- Cone Drop test
- Water Permeability
- > Tensile Properties
- Tear Resistance
- Rubber Property

#### **Pipes**

- ▶ UPC
- ▶ UP
- ➤ HDPE
- Clay Pipe
- Defelection Test
- > Infiltration & Exfiltration Test



## مختبرات الدوحة الفنية

#### **GEOTECHNICAL STUDIES & INVESTIGATION**

Doha Technical Laboratories (DTL) embraces the vision of becoming the leader in geotechnical and geophysical activities in its markets of operation. Our mission is to provide reliable, timely, accurate, cost effective and quality specialized services to meet its customer's expectations. Doha Technical Laboratory is capable to conduct specialized geotechnical, geophysical, geological engineering services and consulting including the quality control of projects and supervising special studies.

Doha Technical Laboratories have been undertaking geotechnical investigations for various development projects in Qatar, as such, have accumulated a vast archive of site investigation data. Our in-depth knowledge of ground conditions in Qatar has enabled us to provide advice on likely ground conditions and guidance on suitable investigation methods and extent of investigation required.

#### 1. Geotechnical Investigation:

The essential data from various parameters in Geotechnical investigation are useful for the foundation design and other ground related factors. Professional drilling team and equipment are capable of conducting various drilling and sampling techniques including rotary conventional and wireline core drilling, hollow and solid auger drilling and percussion drilling. The investigations conducted are accompanied by a full suite of sampling and in-situ testing including, but not limited to, disturbed and undisturbed sampling, as well as expansion, strength, and permeability testing.

A set of laboratory tests are being carried out on the disturbed and undisturbed samples collected from the boreholes / Trial pits considering the type of construction. The preliminary, factual and interpretative report is being issued in desired formats.

#### An overview of our geotechnical services is listed below:

All investigations are carried out in accordance with international standards (BS 5930:2015, BS EN 1997, ASTM etc) and are directed and supervised by highly experienced degree or masters qualified geotechnical engineers, engineering geologists, geophysicists and engineers.

Our investigation methods include the following:

- Geotechnical studies for dams, roads, buildings and retaining structures
- Borehole drilling (cable percussion and rotary coring) onshore and nearshore
- Trial pitting and trenching



## مختبرات الدوحة الفنية

- Probe-hole drilling (Diagraphy Drilling)
- In-situ testing including, SPTs, plate load tests, CBR, Pressure Meter testing, Falling Head, Disilipation Test, Packer Test etc.
- Soil, rock, groundwater sampling & Laboratory Testing
- Slope stability Analysis
- Geological mapping
- Chemical Testing

#### **Equipment & Resources:**

We own and maintain all our own equipment and main resources include the following:

- Hydraulic rotary coring & cable percussion drilling rigs
- Air compressors, water tankers, mobile water bowsers
- A wide range of drilling equipment, core barrels, wireline drilling systems, core bits, etc
- Jean-Lutz drilling parameter / data logger Unit
- Pressure-meter (Roc Test)
- Dynamic Cone Penetrometer (DCP)
- Single/Double Tube Packer

#### 2. Geophysical Surveys:

Geophysical surveys are being conducted to determine the presence of cavities or weak and fractured ground conditions which may pose a hazard to construction projects in Qatar. Geophysical survey is the systematic collection of geophysical data for spatial studies. DTL uses a great variety of sensing instruments, and data will be collected from above or below the Earth's surface.

DTL is providing the following geophysical services throughout the Qatar:

- Seismic Shear Wave Velocity Tests utilizing Multi Analysis Surface Waves (MASW)
- Seismic Shear Wave Velocity Tests utilizing Single Analysis Surface Waves (SASW)
- Seismic Downhole Testing
- Seismic Crosshole Testing
- Cross-hole Seismic Tomography
- Down-hole Seismic Tomography
- Ground Penetration Radar (GPR) for subsurface Scanning
- Cable Locator
- Seismic Refraction Micro-Tremor (ReMi)



## مختبرات الدوحة الفنية

- Electrical Resistivity Tomography (ERT)
- Seismic Refraction
- Topgraphy Surveying

We own and maintain the following equipment:

- Seismograph (Ambrogeo & Geometrics)
- 24-Channel Land Streamer
- Ground Penetrating Radar (US Radar 100s & Proceq GP8000)
- Resistivity meter
- Cross hole and down hole seismic test equipment
- Borehole Tomography

Our drilling rigs can carry out exploratory/verification boreholes to "calibrate" surface geophysical data.

#### 3. Land Surveying:

#### Overview:

Our land survey department has considerable knowledge and experience in Topographic survey, setting out survey, Underground utility survey, as-built survey, digital terrain modelling, establishment of control stations and benchmarks, precise and differential levelling and survey consultancy and check engineering. With state of the art equipment, specialized software and qualified surveyors, we are ready to complete your surveying needs.

#### **Equipment:**

- Total Station
- Levelling Machine
- GPS
- GPR (Ground Penetrating Radar for UG)

#### 4. Cavity Filling by Grouting:

#### Overview:

Our Geotechnical and Geophysical team has considerable knowledge in investigating and identifying the weak zones / cavity in the substructure up to zone from ground level for the anomalous zones this obtained DTL proper and execute the remedial action by cavity grouting to eliminate such anomalies.

#### Equipments:



## مختبرات الدوحة الفنية

- Drilling Rig
- Pressure Grouting Pump

#### 5. Instrumentation & Monitoring

#### Inclinometer

An inclinometer is a sensor used to measure the magnitude of the inclination angle or deformation of any structure. Inclinometer sensors are used to measure the slope gradient during activities like tunnelling, excavation and de-watering. Such activities affect the ground that supports the structure. The inclinometer installation procedure depends on the application field. It can be installed vertically to monitor the cut slope or any movement in the shoring wall and embankment.

#### Strain Gauge

Strain gauges offer the ability to measure the effect of loads, settlement, or other changes in a structure. They record strain, which is a dimensionless measure of deformation. Stress is related to strain by a material's properties and is predictable within a certain range of applied strain. The SM-5A vibrating wire surface strain gauge (strain gauge) is designed for long-term measurements of surface strain variations on steel structures, such as bridges, piles, arches, joints, and facings of prefabricated tunnels. It can also be used to measure variations in deformations on the concrete surface.

#### **Optical Target Monitoring**

Optical 3D displacement monitoring is a geodetic measuring method, which defines the absolute, spatial position of strategically placed targets, which are firmly connected to the structure to be monitored. By repeated measurements of the 3D measuring points, time dependent diagrams can be produced, which describe the deformation behavior of the structure measuring points with precision.

#### **Settlement Plates**

The most common settlement monitoring system is the settlement plate. These instruments may be simply constructed and read manually, or involve relatively complex electrical sensor systems for monitoring. Settlement plates are typically installed in areas where significant settlement is predicted.

They can be used to examine if predicted settlement:

- 1) is occurring
- 2) is occurring at predicted rates and magnitudes
- 3) has occurred to a magnitude of interest (or over a time of interest)
- 4) is substantially complete
- 5) is not occurring

Settlement plates may also be installed to monitor heave, either caused by material displacement or frost. Settlement plates may be used alone or in conjunction with other instrumentation



## مختبرات الدوحة الفنية

including horizontal inclinometers, piezometers, borehole extensometers, and hydraulic remotely-monitored settlement systems.

#### **Vibration Monitoring**

Vibration from construction activities such as blasting, rock excavation, general excavation, pile driving, and tunneling can lead to property damage, litigation, project delays, and increased costs. Vibration monitoring provides a reliable and cost-effective way to control for excessive vibrations, protecting project owners, construction companies, and nearby properties. DTL provide the facility of the Minimate Pro6 monitor, which offers advanced monitoring technology with an unequalled set of features and rugged design. The Minimate Pro6 have the two standard ISEE Triaxial Geophones to monitor vibration sources from two different locations. Or, connect one ISEE Triaxial Geophone and an ISEE Linear Microphone or optional Sound Microphone when air overpressure or sound data is required.

#### 6. CCTV Pipe Inspection

Closed Circuit Television Video (CTTV) sewer inspection refers to the process of using a camera to see inside of pipelines, sewer lines, or drains. CCTV cameras allow plumbers to see the root causes of sewer issues without needing to conduct more invasive methods like digging or removing walls or flooring to gain access to plumbing.

These types of sewer inspections tend to be a more cost-effective way to pinpoint the location of sewer and pipe blockages. CCTV video cameras can help homeowners find the exact cause of sewer damage, including:

- Root intrusion
- Earthquake damage
- Pipe cracking
- Offset joint pipes
- Corrosion
- Deterioration over time
- Poor installation or previous repair efforts
- Accidental puncturing
- Severe blockage

#### 7. NDT Testing using Geophysical Techniques

#### Scanning using GPR

DTL is using Proceq GP8000 Live Ground Penetrating Radar (GPR) system for concrete testing which is a handheld device. This GPR concrete scanner features ultra-wideband detection for unparalleled subsurface evaluation of concrete slab, bridges, buildings, pavements, and other concrete structures. Using Stepped Frequency Continuous Wave (SFCW) technology, GPR Live real-time concrete scanning covers multiple individual GPR antennas ranging from 0.2 to 4.0GHz.

Slab Impulse Response (SIR)

DTL is using Olson Instruments NDE 360 platform equipped with the Slab Impulse Response System. The Slab Impulse Response (SIR) system is designed to identify subgrade voids below



## مختبرات الدوحة الفنية

slabs-on-grade less than two feet thick. In addition, the Slab IR test method can be used on other concrete structures to quickly locate areas with delamination or voids in the concrete, if the damage is relatively shallow. Slab IR can be performed on reinforced and non-reinforced concrete slabs as well as asphalt or asphalt-overlay slabs. The Slab Impulse Response method is excellent for evaluating the condition of slab subgrade support.

#### 8. Hydrogeological Investigation:

#### Overview:

Hydrogeological investigation are carried out to provide design data for dewatering schemes or injection well capacities for brine/ TSE disposal, to derive water well performance characteristics and pump selection criteria, etc. All investigations are carried out in accordance with international standards (e.g. ISO 14686) and are directed and supervised by highly experienced degree or masters qualified hydro geologists or geologists.

DTL provides the following services

- Exploratory rotary core drilling
- Drilling and installation of water wells, observation wells and groundwater monitoring wells
- Installation of piezometers
- Hydraulic Conductivity Testing
- Well casing, screen and filter pack installation
- Pumping (abstraction) tests and injection testing
- Groundwater sampling
- Laboratory analysis of groundwater samples

#### Equipment & Resources:

We own and maintain all our own plant and equipment; main resources include the following:

- Open hole drilling rig
- Air compressors, water tankers, mobile water bowsers
- A wide range of drilling equipment, including down-the-hole hammers, tri-cone roller bits, etc
- Jean-Lutz drilling parameter/data logger units
- Submersible pumps, V-notch weir tanks, flowmeter and piezometer.



## مختبرات الدوحة الفنية

#### 9. Geo-Environmental Investigation:

#### Overview:

Doha Technical Laboratory committed to help businesses grow in sustainable manner and to fully adhere to National and International codes standards and Key Environmental Performance Indicators. DTL is fully equipped to perform Environmental related tests and to provide Expert opinions, recommendations on Environmental aspects, impacts and other Environmental related queries as per Qatar Environmental Law "Law No. 30 of 2002".

Services DTL can offer include:

#### **Environmental Services**

- Environmental Due Diligence Studies
- Environmental aspect and Impact Assessment
- Geo Environmental Assessment and Remediation.
- Testing and Reporting required for CTO.
- Environmental Site Assessments
- Environmental Risk Assessment

#### **Environmental Testing**

- Ambient Air Monitoring and Analysis
- Stack Emission monitoring
- Indoor Air Quality monitoring
- Air Dispersion Modeling
- Geo Environmental Investigations/ Testing of Soil and Water
- Noise Monitoring and Contour Modeling
- Illumination Monitoring
- RATA (Relative Accuracy test Audit) for CEMS.

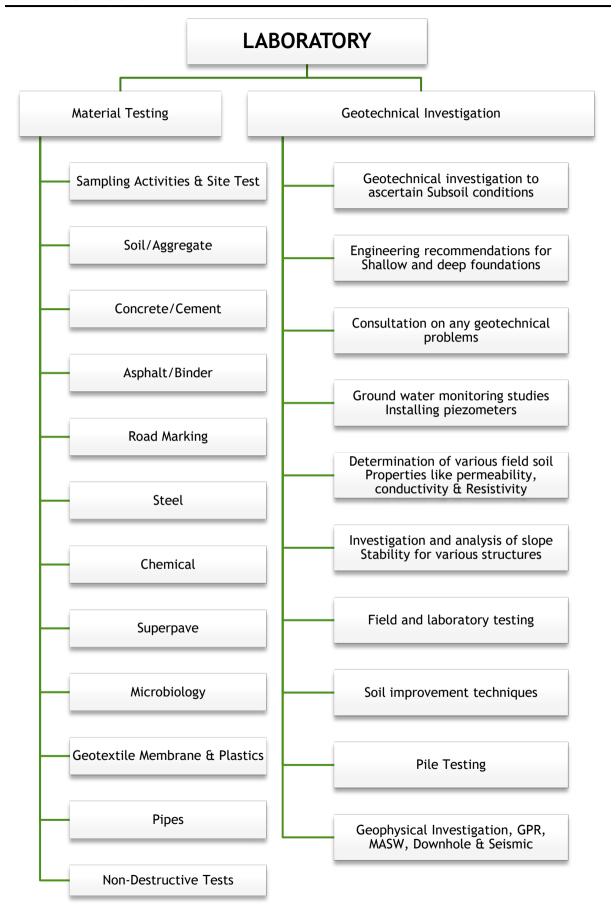
#### **Equipment:**

- Graywolf Indoor Air quality combine with TG-501 Toxic Gas probe and IQ-610 Indoor air quality probe PID sensors
- Stack Flue Gas Analyzer with Interface Cable
- ARA N-FRM Sampler PM 2.5, PM 10, Total Suspended Particles
- Sound Level Meter with GPS for noise monitoring and frequency analysis.
- Aeroqual Series 500 Monitor (S-500) with Sensor Head.
- HAZ-SCANNER EPAS Environmental Air Monitoring Station
- Handheld Laser Particle Counter
- Bioaerosol Sampler
- Six Stages Andersen Microbial Air Sampler
- Meteorological Instruments
- Dust Particle Counter



## مختبرات الدوحة الفنية

#### II - DTL STRUCTURE





مختبرات الدوحة الفنية

#### III - QUALITY APPROACH

Quality Assurance is a paramount importance in our day to day activities. Accordingly, DTL has focused on the quality assurance and quality control on our services, also we proudly announce that we achieved the unique status of being an "independent material testing laboratory" and have been successfully obtained accreditation from A2LA (American Association for Laboratory Accreditation) against the ISO/IEC 17025 standards "General requirements for the competence of testing and calibration laboratories".

There is a big distinction between laboratory specific accreditation like ISO 17025 and a general system certification like ISO 9001 series.

A laboratory's commitment to comply the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results. The Management system requirements in ISO/IEC 17025 (Section 8) are written in language relevant to laboratory operations and meet the principles of ISO 9001 Quality Management System - requirements and are aligned with its pertinent requirements.

In view of the above ISO/IEC 17025 accreditation provides the customer with the high level of confidence in the laboratory's impartiality, technical competencies and technical validity of its results as opposed to ISO 9001 which is purely system certification.

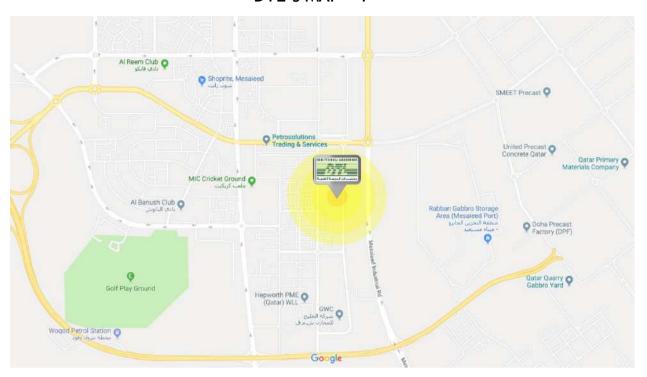


# LOCATION MAP & BUILDING LAYOUT

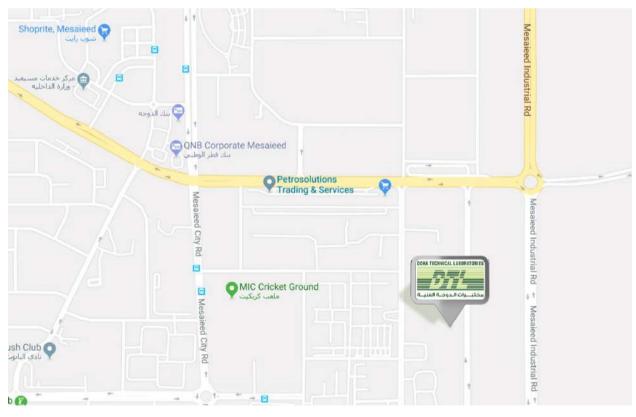


## مختبرات الدوحة الفنية

DTL's MAP - 1



DTL's MAP - 2



https://goo.gl/maps/coY1Pwwy5cq

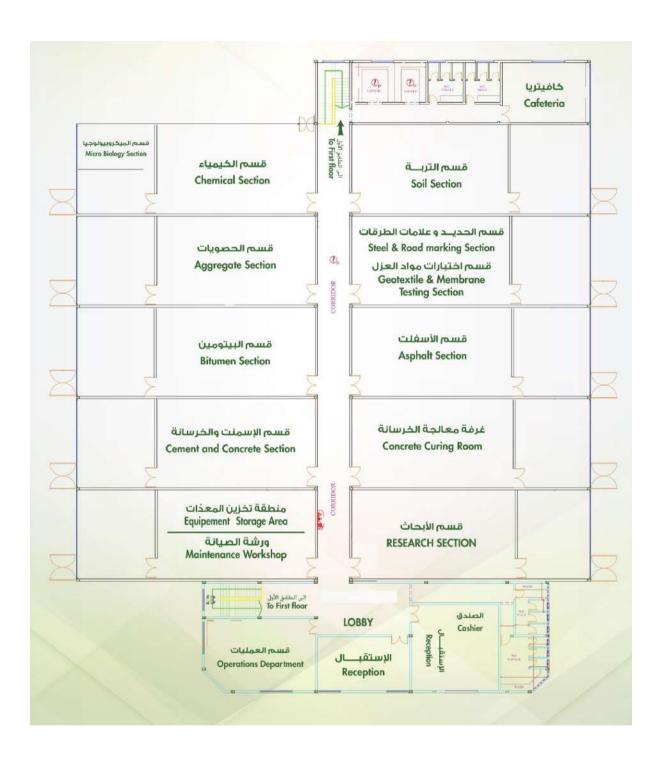
#### **Contact Persons:**

Mr. Durga Prasad : 66884495 / 70548855Mr. Balananda Chhetri : 70609969



## مختبرات الدوحة الفنية

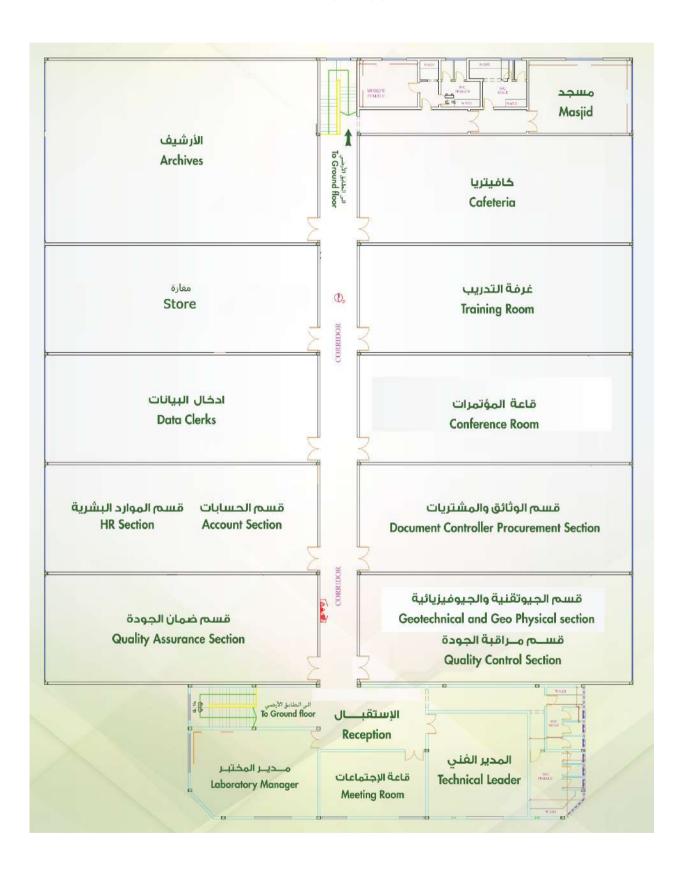
#### **Ground Floor**





## مختبرات الدوحة الفنية

First Floor





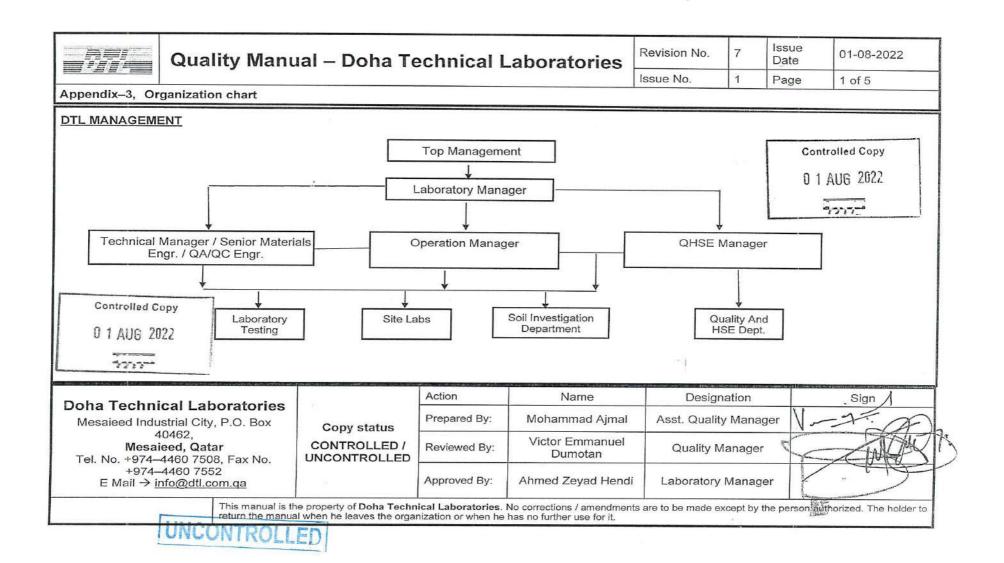
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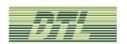
# **CHART**



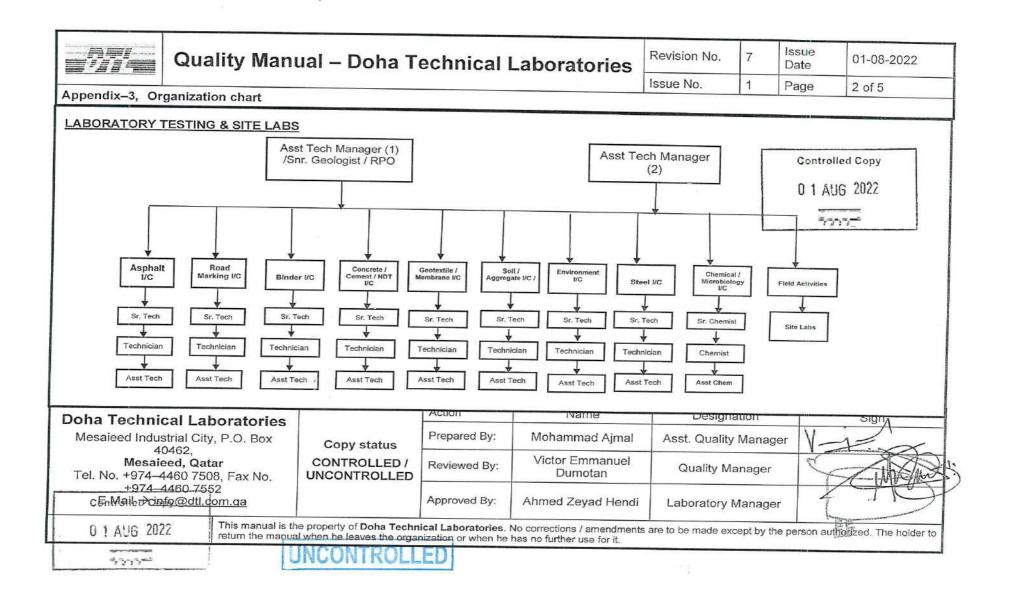
## مختبرات الدوحة الفنية

#### ORGANIZATIONAL CHART



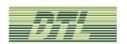


## مختبرات الدوحة الفنية

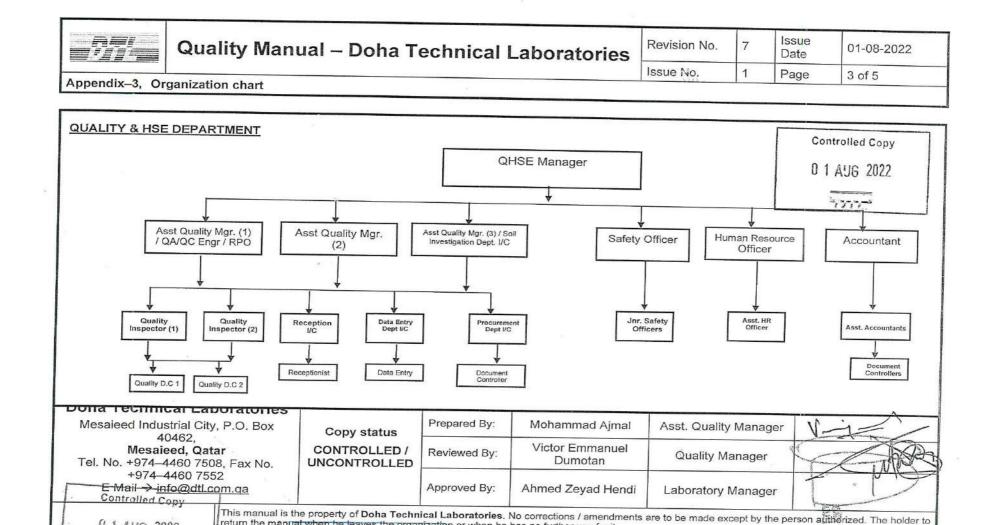


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## مختبرات الدوحة الفنية



return the manual when he leaves the organization or when he has no further use for it.

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## مختبرات الدوحة الفنية

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## مختبرات الدوحة الفنية



## Quality Manual - Doha Technical Laboratories

Revision No. 7		Issue Date	01-08-2022
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Appendix-3, Organization chart

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Mesaieed Industrial City, P.O. Box 40462.

#### Mesaieed, Qatar

Tel. No. +974–4460 7508, Fax No. +974–4460 7552 E Mail → <u>info@dtl.com.ga</u> Copy status

CONTROLLED / UNCONTROLLED Action Name Designation

Prepared By: Mohammad Ajmal Asst. Quality Manager

Reviewed By: Victor Emmanuel Quality Manager

Approved By: Ahmed Zeyad Hendi Laboratory Manager

er the person authorized. The holder to

Sign

This manual is the property of **Doha Technical Laboratories**. No corrections / amendments are to be made except by the person authorized. The holder to return the manual when he leaves the organization or when he has no further use for it.



## مختبرات الدوحة الفنية

#### Flow Chart

#### Customer

- Inquiry
- Comments

#### Office

- Quotation
- · Agreement or Confirmation
- · Approval from lab Manager

#### Finance Approval

#### Reception

#### Receipt of Sample

- · Request for Lab test
- · Sample No.
- · Reference No.
- · Sampling Certificate
- · Work Sheet

#### Section/Activities

#### Testing

- Testing as per standard as required (List of Tests done as per enclose)
- · Filling the attached worksheets.

#### Reporting & submitting

- · Printing Original Test Reports
- Final Submittal (QA/QC)
- · Final Approval and Stamp

#### Delivery

- · Email to customer
- · Monthly Delivery With Invoice

#### Invoicing

- · Summary of test
- Invoice
- Statement
- General Statement



## DTL PERSONNEL



#### About DTL's Personnel

DTL was supervised by a qualified and experienced material engineer and its technicians are suitably qualified and trained to carryout various tests in accordance with recognized testing standards. Reporting results and supervising all in full time attendance at the laboratory.

"ISO/IEC 17025 accreditation provides confidence and enhanced our technical skills within us. Further, now our technical team can deliver the services with full confidence to our customers"

Major category of employee & Staff are as follows

- Material Engineer
- QA/QC Engineer
- Administrative Staff
- Nuclear Gauge Technicians (Licensed)
- Senior Technicians
- Technicians
- Assistants / Helpers
- Office boy + Teaboy
- Office Driver
- Watchman

CONTACT PERSONS & THEIR TELEPHONE NOS.

1. AHMED ZEYAD HENDI

LABORATORY MANAGER

TEL. NO.: +974-44607508 / FAX NO. +974-44607552

MOBILE NO.: +974-55870898

EMAIL: Info@dtl.com.ga / Ahmed@dtl.com.ga

2. VICTOR EMMANUEL Q. DUMOTAN

QUALITY MANAGER

TEL. NO.: +974-44607508 / FAX NO. +974-44607552

MOBILE NO.: +974-77448439

EMAIL: Info@dtl.com.ga / Victor@dtl.com.ga



### CVs of Key Personnel

Laboratory Manager

- Ahmed Zeyad Hendi

Technical Manager

- Ayman Al Ghbani

Quality Manager

- Victor Emmanuel Dumotan

QA/QC Engineer

- Mohammad Ajmal

Senior Chemist

- Mohammed Salim

Geotechnical Section Head

- Ajith Kumar

Geotechnical Engineer

-Ziauddin Ahmed

Geophysicist

- Zia Ul Qamar



## مختبرات الدوحة الفنية

## **Ahmed Zeyad Hendi**

Laboratory Manager

#### PROFILE

With wide theoretical and practical knowledge in ASTM, BS, ACI Standards and ISO/IEC 17025-2005 Internal Auditor.

With more than fifteen years' experience in the field of laboratory material testing, quality assurance and quality control systems.

#### EXPERIENCE

#### LABORATORY MANAGER

#### Doha Technical Laboratories | State of Qatar | 2003 - Present

Doha Technical Laboratories is an approved commercial private Lab in Qatar certified by Qatar General Organization for Standards & Metrology and ASHGHAL Authority to carry out all physical, mechanical and chemical tests for construction materials.

- Meeting and fulfilling statutory requirements and regulatory requirements by ensuring that those performing the activities are made aware of these requirements and the compliance is ensured through adequate supervision. This is carried out through reviewing the requirements by the designated persons.
- Display of quality policy and making everyone understand the policy and purpose of the organization.
- Deployment of functional of department objectives across all levels and periodical monitoring of the performance.
- Customer complains analysis.
- Responsible for the overall quality control and technical operations of the laboratory.
- Implements good laboratory practices by providing instructions and initiating training as needed.
- To ensure effective implementation of ISO/IEC 17025 system.
- Review and approve the purchase request of required instruments, spare parts, consumable, standards, chemicals, and reagents that are necessary to run the test as per the approve method.
- To ensure that the stringent follow-up of documented management system in the laboratory for technical requirements of ISO 17025.
- To ensure technical training to the Technicians / Chemists as identified is given.
- To function as an overall responsible person for all requirements of laboratory.

#### THANK YOU FOR YOUR TIME



QUALIFICATION

BSCE (Civil Engineer)

PROFESSIONAL AFFILIATIONS
Syria University of Civil
Engineers

COUNTRY EXPERIENCE
Syria & Qatar

NATIONALITY Syrian

LANGUAGES
English & Arabic

MARITAL STATUS
Married

DATE OF BIRTH 14/1/1976



# مختبرات الدوحة الفنية



#### **CONTACT**

Contact: +974 4607508

Mail Id: ayman.tl@dtl.com.qa Address: P.O Box: 40462

#### **SKILLS**

- Microsoft Office
- Auto Cad 2008
- Primavera Project Planner

#### **LANGUAGES**

- Arabic
- English

# Ayman Al Ghbani Technical Manager

#### **PROFILE**

- Proficient in quality management techniques
- ⇔ Strong background in ISO 17025
- ⇔ Certified Internal Auditor in ISO 17025

#### **EDUCATION**

Damascus University, Syria Roads and Transportation Department Bachelor of Science in Civil Engineering Year of 2006

#### WORK EXPERIENCE

- ⇔ 2006-2007 M/s. Radwan Engineering, Al Wani Syria Responsibilities: Working as an Engineer
- ⇔ Feb. 2007 to Present M/s. Doha Technical Laboratories

Position: Material Engineer Date: June 2007 to 2010

Position: QA/QC Engineer, RPO & Technical Manager

Date: January to Present

- ⇔ Test is carried out according to customer requirement.
- ⇔ Responsible for Asphalt, Soil, Concrete & Aggregate testing and sampling in accordance with ASTM, BSI and AASTHO Standards.
- ⇔ Test is done on the time.
- ⇔ To identify and to provide training to the subordinates.
- ⇔ To check effectiveness of the training provided to the employees.
- ⇔ To ensure effective implementation of ISO/IEC 17025 system.



# مختبرات الدوحة الفنية

- ⇔ Responsible for maintenance and calibration of equipment in coordination with the concerned person.
- ⇔ Calibrate the Laboratory instruments / Coordinate the Preventive Maintenance activities based on instruments Calibration / PM schedule.
- Monitor the performance of Laboratory equipment under his area of responsibility and updates the Control Charts for those instruments.
- Coordinate Operation test runs, troubleshooting, and issue the finding reports.
- Serve as a referee for non-conformance, investigate, and resolve the sources of non-conformances, and issues corrective action reports.
- Conduct field trips to collect samples upon request.
- Work with the Supplier Engineer to commission the new laboratory instruments, issues the new instrument commissioning report, and add all required new instrument information to the Management system.
- ⇔ Investigate and troubleshoot out of limit lab instruments, issue repair tickets to instrument technician or service vendor, and put instrument back in operation after repair.
- ⇔ Train Laboratory technicians on the new instruments, and on any newly implemented analysis procedure.
- ⇔ Follows Laboratory Standard Safety rules and regulations.
- ⇔ To calculate the measurement uncertainty of the identified testing and to ensure that the same is within control.
- Perform critical analysis.
- ⇔ To do retesting of the retained sample as well as to do interlaboratory comparison of the samples with the accredited lab as per the schedule of QC / QA as guided by the Technical Manager.
- ⇔ To ensure smooth testing of the samples received for testing with the strict adherence to the relevant standard as per the defined sampling schedule.
- ⇔ Wide practical knowledge in engineering materials testing Asphalt, Soil, Concrete & Aggregate testing and sampling.

THANK YOU FOR YOUR TIME



# مختبرات الدوحة الفنية



# Victor Emmanuel Q. Dumotan

#### **PROFILE**

- A team player and excellent in working with others to achieve a certain objective on time and with quality.
- ⇔ Proficient in quality management systems on ISO 17025.
- ⇔ ISO 17025 Certified Internal Auditor.

#### **EDUCATION**

Bachelor of Science in Computer Engineering - October 1996 University of San Carlos - Technological Center Cebu City, Cebu, Philippines

#### **WORK EXPERIENCE**

QUALITY MANAGER
December 2006 till Present
DOHA TECHNICAL LABORATORIES
DOHA-QATAR

#### **SKILLS**

CONTACT

E-Mail: Victor@dtl.com.qa

+974 77448439

P.O Box: 40462

- Windows XP Microsoft Office
- Internet Access
- Emails

Contact:

Address:

#### **KEY RESPONSIBILITIES:**

- ⇔ To prepare, review and approve the management system documents.
- ⇔ To ensure that a management system is established implemented and maintained in accordance with the ISO/IEC 17025 management system standards.
- ⇔ To ensure that the continual improvement is going on after implementing the system.
- ⇔ To liaise with accreditation body for all the matters related to management system.
- Approve the minutes during the management review meeting and set the action plan.
- ⇔ Overall responsible for the document control.
- ⇔ To establish control over document and data for Quality Manual and Procedures.
- ⇔ To schedule and arrange internal audits on the basis of status and importance of the functions.
- $\Leftrightarrow$  To establish control system on quality and technical records.

# LANGUAGES English

#### **INTERESTS**

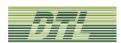
Volunteer Work/Community Involvement



# مختبرات الدوحة الفنية

- ⇔ To identify potential causes of non-conformities and take necessary corrective and preventive actions to remove the cause.
- ⇔ To identify and plan the training needs of employees for the management system.
- ⇔ To identify the corrective / preventive action based on the analysis of complaints/effectiveness of system and ensure action taken is effective.
- ⇔ To do data analysis and identify fruitful results for the further improvement.
- ⇔ Prepare report for management and chair the management review meeting.
- Review and maintain records for Objectives.
- ⇔ To follow up the Lab quality and its progress with the Technical manager and Chemists.
- ⇔ Overall responsible for establishing and maintaining of System based on ISO/IEC 17025.

#### THANK YOU FOR YOUR TIME



## مختبرات الدوحة الفنية



#### CONTACT

Contact:

+974 77733026,

Mail Id:

mohammadajmal.88@gmail.com

ajmal@dtl.com.qa

Address: P.O Box: 40462

#### **SKILLS**

- Operation and application of MS Word, MS Excel, MS Office.
- AutoCadd.
- Primavera V6

#### **LANGUAGES**

English Hindi Malayalam

#### **INTERESTS**

Soccer
Volunteer Work/Community
Involvement

# Mohammad Ajmal

QA/QC Engineer

MMUP/UPDA Registered Engineer

Registered No. 17180

#### **PROFILE**

- 10+ years of experience in construction material testing as per BS, ASTM methods
- Proficient in quality management techniques
- Strong background in ISO 17025
- Certified Internal Auditor in ISO 17025
- Certified Lead Auditor in ISO 9001:2015

#### **EDUCATION**

Bachelor of Technology (B.Tech.), in Civil Engineering, June, 2012.

IES College of Engineering, Chittilappilly, Thrissur, Kerala, India. (Affiliated under University of Calicut).

#### **WORK EXPERIENCE**

QA/QC Engineer and Assistant Quality Manager

November 2014 till Present

DOHA TECHNICAL LABORATORIES

DOHA-QATAR

- Continuous monitoring to ensure that a management system is established implemented and maintained in accordance with the ISO/IEC 17025 management system standards.
- ⇔ Successfully performed the tasks of Assistant Quality Manager.
- Supervise and made sure the quality of testing for concrete, soil, aggregate, cement, asphalt, bitumen, road marking, geotextile as per test standards.
- ⇔ Conducted internal audits, training, QA study, MoU Calculation in the laboratory



# مختبرات الدوحة الفنية

- ⇔ Handled and coordinated the yearly audit by external agency IAS (By International Accreditation Agency).
- ⇔ Coordinate with the all sections for the effective documentation and implementation of ISO 17025 Management System
- ⇔ Ensures that all ISO 17025 documents and formats are clearly understood and implemented in all sections
- Responsible for the continuous implementation of all ISO formats and Quality Procedures and initiates corrective actions whenever necessary
- Certified and Licensed Radiation Protection Officer.

#### **CIVIL ENGINEER**

January 2014 - November 2014 **AL NAIMI TRADINGDECORATION &CONT. CO.**DOHA - QATAR

#### **KEY RESPONSIBILITIES:**

- Preparation of BOQ's for Work Enquiries such as Construction, Maintenance and Interior works.
- ⇔ Site visit upon work enquiry for estimation purpose.
- Regular site visit for proper work execution.
- ⇔ Site supervision for Construction works, False ceiling works, Gypsum works, flooring works, Steel works (MS & SS), Cladding work, G.R.C and all kinds of maintenance works.
- ⇔ Scrutinize Tender documents and Incorporating additional BOQ items within the tender offer

#### JUNIOR GEOTECHNICAL ENGINEER

May 2013 - December 2013

#### SPECTRA GEOTECHNOLOGIES

ABU DHABI, UAE

- \Rightarrow Compiling project draft reports and final reports.
- Coordination with the client requirements for lab tests with the lab technicians.
- Business development for the company in Doha- Qatar. Field study of the market in Qatar and primary marketing campaigns for the company.
- Accepting RFPs (Request for Proposal) of Qatar and UAE based projects and assisted in preparation of BOQ's (Bill of Quantities).
- Study of ISO related documents and implementing in the company.



# مختبرات الدوحة الفنية

Assisted in preparing quality manual for ISO 17025.

#### **SITE ENGINEER**

September 2012 - November 2012 AKKADIYA TRADING & CONTRACTING DOHA - QATAR

#### **KEY RESPONSIBILITIES:**

- $\Leftrightarrow$  General site supervisory duties for construction of villas.
- Working out the item wise quantities after evaluating all the necessary drawings and specifications
- Preparing final estimates to enable costing
- Adking measurements from building drawings, plans and structural drawings
- Periodically updating to the higher authorities regarding the status of the projects.
- ⇔ Coordination with site technicians and execution of works at site

THANK YOU FOR YOUR TIME



## مختبرات الدوحة الفنية



#### **CONTACT**

Contact: +974 33632198, Mail Id: m.salem@dtl.com.qa Address: P.O Box: 40462

#### **SKILLS**

- Windows XP Microsoft Office
- Internet Access
- Emails
- Computer Driven Lab Equipmentsp

**LANGUAGES** 

English Arabic

**INTERESTS** 

Volunteer Work/Community Involvement

# Mohamed Salem Mohamed Abdelfattah Senior Chemist

#### **PROFILE**

- Extensive Knowledge and experience in chemical testing of water, soil, aggregate, concrete, cement and steel.
- Proficient in quality control methods and ISO 17025.
- ISO 17025 Internal Auditor.

#### **EDUCATION**

B. Sc. Chemistry & Physics Department, Faculty of Science, Zagazig University, Egypt, (Grade of Graduation: Good 67.8%), June 2002

#### **WORK EXPERIENCE**

#### **SENIOR CHEMIST & LAB SUPERVISOR**

JUNE 2004 till Present

#### **DOHA TECHNICAL LABORATORIES**

DOHA-QATAR

- ⇔ In-charge for all chemical tests of water, concrete, soil, aggregate, steel, cement materials.
- Coordinating and conducting test according to customer requirement.
- ⇔ Test is done as per ASTM, BSI and AASTHO standards.
- ⇔ To identify and to provide training to the subordinates.
- ⇔ To check effectiveness of the training provided to the employees.
- ⇔ To ensure effective implementation of ISO/IEC 17025 system.
- ⇔ Responsible for maintenance and calibration of equipments in coordination with the concerned person.
- Monitor the performance of Laboratory equipment under his area of responsibility and updates the Control Charts for those instruments.
- ⇔ Coordinate Operation test runs, troubleshooting, and issue the finding reports.
- Serve as a referee for non-conformance, investigate, and resolve the sources of non-conformances, and issues corrective action reports.



# مختبرات الدوحة الفنية

- Conduct field trips to collect samples upon request.
- ⇔ Train Laboratory technicians on the new instruments, and on any newly implemented analysis procedure.
- ⇔ Follows Laboratory standard Safety rules and regulations.
- ⇔ To calculate the measurement uncertainty of the identified testing and to ensure that the same is within control.
- ⇔ To do retesting of the retained sample as well as to do interlaboratory comparison of the samples with the accredited lab as per the schedule of QC / QA as guided by the Technical Manager.
- ⇔ To ensure smooth testing of the samples received for testing with the strict adherence to the relevant standard as per the defined sampling schedule.
- ⇔ Responsible for Training to the Technicians & new entrant (Skilled Labor) & Issue a Certificate of Conformity.
- ⇔ Observation & maintaining material tests in between interlab comparison & Proficiency Testing Australia ,PTA
- Wide practical knowledge in engineering materials.

#### THANK YOU FOR YOUR TIME



# مختبرات الدوحة الفنية



#### CONTACT

Contact: +974 31170574

Mail Id: ajithkumarcnair@gmail.com

Address: P.O Box: 40462, Qatar

#### **SKILLS**

Operating System: LIMS, MS Office

#### **LANGUAGES**

English Hindi Malayalam Tamil

#### **INTERESTS**

Volunteer Work/Community Involvement

# AJITHKUMAR. C Geotechnical Section In charge / Assistant QA/QC Manager

#### PERSONAL DETAILS

Date of Birth : 20 April 1973

Languages known : English, Hindi, Malayalam, Tamil

Gender : Male
Nationality : Indian
Marital Status : Married
Passport Number : K 8310860
Driving Licenses : UAE and Indian

#### **CARREER OBJECTIVE**

25 years experienced having strong technical backgrounds, seeking a challenging and responsible career in a progressive organization to perform with the experience in managing a Testing Laboratory and in Quality Management to grow with the organization using good organizing and managing skills.

#### **CORE STRENGTH**

- Possess strong organizational, mathematical and communication skills.
- Comprehensive problem-solving abilities and willing to learn new skills and techniques.
- Polite, diplomatic and optimistic with ability to interact with people at all levels.
- Result oriented, diligent and determined with ability to lead teams in assuring quality in the work place.
- Good knowledge in BSEN ISO/IEC 17025
- Good knowledge about the Engineering material testing and familiar with their relevant standards.
- Good teaching skills to train or teach others.
- Capable to provide maximum productivity with the available resources in minimum time without compromising with the standard requirements and quality.
- Well Versed with Qatar Construction Specifications.
- Good team leader.

#### **TRAING & CERTIFICATIONS**

- Internal auditor ISO/IEC 17025:2005
- Lead Auditor ISO 9001: 2015
- Management Quality Management System, Stress Management.



# مختبرات الدوحة الفنية

#### **EDUCATION**

- BSc Chemistry from Mahatma Gandhi University, Kerala, India (1993)
- Post graduate Diploma in Computer Applications (PGDCA)

#### **WORK EXPERIENCE**

# SECTION IN-CHARGE & QUALITY MANAGER - GEOTECHNICAL SECTION

Dec 2019 to Present

#### DOHA TECHNICAL LABORATORIES

MESAIEED, QATAR (ISO/IEC 17025 ACCREDITED)

#### **KEY RESPONSIBILITIES:**

- Responsible for all activity in the section.
- Responsible for the Geophysical surveys.
- ⇔ Lead role in the implementation of new tests, activities and techniques.
- Attending Technical Meetings.
- Solving all technical issues raising by the Client.
- ⇔ Sound knowledge in BSEN ISO/IEC 17025 & 9001 Requirements.
- Sound knowledge in the test methods like BS, ASTM, BSEN relevant in the

testing of Engineering Materials.

⇔ Reporting to the Top Management.

#### **ASSISTANT QUALITY MANAGER**

Feb 2019 to Dec 2019

#### **DOHA TECHNICAL LABORATORIES**

MESAIEED, QATAR (ISO/IEC 17025 ACCREDITED)

- Responsible for the Internal Technical Audits for all parameters in different sections like Soil, Aggregate, Concrete, Cement, Chemical & Micro Biology, Steel, Geo-Textiles, Asphalt, Geotechnical etc.
- ⇔ Reporting Non-Compliances and proposing corrective actions.
- $\Leftrightarrow$  Evaluating the effectiveness of the corrective actions.
- Recommending preventive actions.



# مختبرات الدوحة الفنية

- $\Leftrightarrow$  Evaluation of the significance of the major non-conformities.
- Responsible for the Implementation of new tests.
- Implemented Pressure Meter test in Geotechnical Investigation.
- Implemented One Dimensional Consolidation test in Soil.
- ⇔ Implemented GPR Survey
- Preparation, Updating and Revision of Technical Document as per Standards.
- Attending Technical Meetings.
- Addressing technical queries.
- ⇔ Sound knowledge in BSEN ISO/IEC 17025 & 9001 Requirements.
- Sound knowledge in the test methods like BS, ASTM, BSEN relevant in the testing of Engineering Materials.
- ⇔ Reporting to the Laboratory Manager.

#### LABORATORY QUALITY MANAGER

2014 Nov to 2018 Oct

#### **GLOBAL SOIL INVESTIGATION LABORATORY**

DUBAI, UAE (ACCREDITED BY DUBAI ACCREDITATION CENTRE (ISO/IEC 17025:2005) **KEY RESPONSIBILITIES:** 

- Performed as the Team leader for getting the accreditation of BSEN ISO/IEC
   17025:2005 from Dubai Accreditation Centre.
- Overall responsibility in the Technical & Quality Department.
- Preparing, Documenting and implementing the quality procedure.
- Preparing, documenting and implementing In-house verification procedures for equipment.
- Training, accessing and authorizing technical staffs for various testing activities.
- Investigating customer complaints and interacting with customers, contractors, consultants and local Government Authorities to resolve their issues.
- Attending Technical Meetings with the contractors and consultants for various projects to explain the requirements mentioned in the Geo-Technical Reports.
- ⇔ Sampling and testing of bituminous paving mixtures.
- Good knowledge about the requirements of the fresh concrete and mix design.
- Performed laboratory trial mixes for various projects and conducted fresh concrete tests.



# مختبرات الدوحة الفنية

- Good knowledge about Steel, Cement and GGBS Testing and specifications.
- Arranging conversations with customers to get new jobs as a part of Business Development.
- ⇔ Conducting internal proficiency tests as the part of IQC for in-house testing and in-situ tests.
- Responsible for external auditing and proficiency tests with Dubai Accreditation Center.
- Establishing Repeatability and Reproducibility Limits for various tests.
- ⇔ Conducting Internal Audits.
- ⇔ Validating the test methods for method variation.
- ⇔ Good Knowledge about Non Destructive Tests on Concrete Structures, such as ultra-sonic pulse velocity, Cover meter, Half Cell Potential, Rebound Hammer, Depth of carbonation etc.
- ⇔ Having idea about Geo technical activities and tests.
- Good knowledge about the relevant construction related test methods (BS, ASTM, DIN, AASHTO etc.)
- ⇔ Reporting to the General Manager.

#### LABORATORY SUPERINTENDENT

2007 Nov to 2014 Oct

#### SWISS BORING OVERSEAS PILING CORPORATION

DUBAI, UAE (ISO/IEC 17025:2005)

- ⇔ Training, accessing and authorizing technical personnel for various testing activities in the Geotechnical Investigations.
- ⇔ Documenting and implementing the quality procedures after the approval.
- Operating, testing, maintaining and calibrating the equipment and instruments.
- Conducting internal proficiency tests.
- Responsible for external audit and proficiency tests with the accreditation body.
- Preparing procedures for in-house calibration and also the Internal Method Statement and the Preparation of calibration schedule.
- Updating international test methods when new amendment comes as well as evaluating in house developed methods.
- Determine the measurement of uncertainty associated with tests and external calibrations.
- Played a major role in getting the accreditation of ISO/IEC 17025 from Dubai Accreditation Center.
- Implemented Particle Size Distribution of soil using Hydrometer.



# مختبرات الدوحة الفنية

Successfully completed the Internal Auditor Course to ISO/IEC 17025: 2005

- ⇔ Successfully completed the Stress Management Program.
- Acting as the Deputy of the Quality Manager.
- Reporting to the Division Manager. Reporting to the Laboratory Manager.

# **SECTION HEAD - DURABILITY & CEMENT** (FROM 2006 JAN TO 2007 AUG)

SENIOR LABORATORY TECHNICIAN (FROM 2003 DEC TO 2006 JAN)

LABORATORY TECHNICIAN (FROM 2001 NOV TO 2003 DEC)

AL HAI AND AL MUKADDAM FOR GEOTECHNICAL WORKS LLC

DUBAI, UAE (ACCREDITED BY DUBAI ACCREDITATION CENTRE (ISO/IEC 17025:2005)

#### **KEY RESPONSIBILITIES:**

- ⇔ Implemented Durability Tests in Hardened Concrete.
- Implemented physical tests of Cementitious materials.
- Conducted Chemical Analysis of Cement.
- Worked as the section in charge of soil, concrete and chemical section as deputation.
- Clearing the technical doubts from the costumers, demonstrating and explaining about the tests to the project related visitors who are coming for witnessing tests.
- A good team leader in the day to day in situ tests.
- Performed as the Material Engineer in the site laboratory for Dubai International Airport Terminal 3.
- ⇔ Familiar with the physical, mechanical and chemical testing of steel reinforcement bars.
- ⇔ Familiar with the Physical, mechanical and chemical tests of Soil, Aggregate, Steel and Fresh and Hardened Concrete
- Reporting to the Technical Manager

#### LAB IN- CHARGE

1995 to 2001 Jan

# INSPECTORATE INDIA CONSULTING ENGINEERS AND SURVEYORS PVT LTD

GANDHIDHAM, GUJARAT, INDIA

- Analysis of physical properties, sugar content and glutinous of food grains like rice and wheat.
- ⇔ Complete chemical analysis of de-oiled cakes.
- Complete chemical analysis of edible oils.



# مختبرات الدوحة الفنية

- Analysis of parameters like polarization, color in ICUMSA and % of sucrose in sugar.
- Analysis of edible salt.
- ⇔ Familiar with the testing of nitrogen containing fertilizers.
- ⇒ Familiar with the equipment like spectrophotometer, Polari meter, pensky martin for flash point.
- $\Leftrightarrow$  Performed thin layer chromatography for determining the adulteration in oils.
- ⇔ Sampling of food raw materials from go downs and oil from tankers.
- Responsible for the join analysis performed with other laboratories.

Reporting to the Branch Manager.

#### THANK YOU FOR YOUR TIME



# مختبرات الدوحة الفنية



#### **CONTACT**

Contact: +974 33815822,

Mail Id: ziauddin@dtl.com.qa

Address: P.O Box: 40462

#### **SKILLS**

- Operation and application of MS Word, MS Excel, MS Office.
- AutoCadd, StadPro

#### **LANGUAGES**

English Hindi Urdu

#### **INTERESTS**

Cricket, Table Tennis
Volunteer Work/Community
Involvement

#### Ziauddin Ahmad

Geotechnical Engineer
MMUP/UPDA Registered Engineer
Registered No. 2440

#### **PROFILE**

- 20+ years of experience in the field of Geotechnical Engineering/QMS as per IS, BS, ASTM standards
- Proficient in Quality Management System
- Qualified Auditor/Lead Auditors Training course of ISO 9001:2000 held in Dubai
- Assessor/Lead Assessor Training course of ISO 17025:1999 held at Dubai

#### **EDUCATION**

A) <u>M. Tech. Engineering (Civil)</u> A Master's Degree of two years duration (Specialization in **Soil Mechanics and Foundation Engg.**) From **Indian Institute of Technology** (IIT), Delhi. **2002**; First Division: CGPA.7.92/10.

B) <u>B. Tech. (Civil)</u> A Bachelor's Degree of four years duration from the Zakir Husain College of Engineering and Technology, **Aligarh Muslim University**, Aligarh **2000**; First Division with distinction: CPI 8.717/10.

#### **WORK EXPERIENCE**

#### PROFESSIONAL EXPERIENCE

- Working with Doha Technical Laboratories (DTL) as In-charge of Geotechnical Section, Doha, Qatar (from March 2010 to till date)
- Worked with M/s Technical Laboratory for soil & building material testing as Quality Manager, Dubai, UAE (from July 2007 to January 2010)
- Worked with M/s Technical Laboratory as Geotechnical Engineer, Dubai, UAE (from March 2005 to July 2007)



# مختبرات الدوحة الفنية

Worked with M/s Consulting Engineering Services (I) Pvt. Ltd.
 Nehru Place, New Delhi, India, as Assistant Engineer
 (Highways) (from Jan 2003 to Feb 2005)

#### **EXPERIENCE ABSTRACT**

More than 16.0 years of professional experience in the field of highway designs and various Geotechnical related works as per IS, BS, and ASTM Standards. Experiences include preparation of geotechnical reports as per BS 5930:2015, design of pavement composition at the Feasibility stage and have good experience towards Quality Management System (ISO 17025 & ISO 9001).

#### **Current Experience:**

- Responsible for hiring peoples like geologists, drillers, site supervisors, technicians in soil and rock section and giving them training in their respective fields.
- Responsible for set up of soil/aggregate lab with all tests like sieve analysis, UCS, vane shear, direct shear, Triaxial, constant/ falling head permeability, point load, plate load, CBR, atterberg limits, etc.
- Responsible to make Site Investigation procedure in Quality Manual of the company
- Responsible to make all forms and worksheets required like borelog, bearing pressure calculations, pile load calculations etc.

#### **Geotechnical Experience:**

- 1. Description of Soil and Rocks & preparation of Borehole Logs.
- 2. Calculation of Bearing Capacity based on shear and settlement criteria's, Pile capacity & Settlements etc.
- 3. Writing Geotechnical Reports as per <u>BS 5930, IS:</u> <u>1892-1979</u>, with recommendations on the type of foundations from villa's to multistoried towers up to 50-60 stories, Electric Substations, Petrol pumps, Mosque, Pipelines, Roads etc.
- 4. Recommending various ground improvements techniques i.e Dewatering, Cobble treatment, Backfilling, Vibrofloatation, Stone columns, Geosynthetics etc.
- 5. Posting on site for the earthworks, ground improvements, mobilazation of rigs and other testing equipments.
- 6. Coordination with clients.
- 7. Maintenance and development of Procedures and



# مختبرات الدوحة الفنية

specifications.

8. Plan and organize functional trainings within the department.

Well versed with all types of field and laboratory tests and surveys required for different projects viz., Sub-soil investigation (SPT, CPT, and Plate Load Test), C.B.R, Atterberg's limits, sieve analysis, permeability, direct shear, triaxial tests, pile integrity etc.

#### **Exposure of Geotechnical projects:**

List is too big to be displayed here, but if asked will be provided on demand. Written geotechnical reports for more than 700 big/small projects. Some of the projects are given for a brief experience

3B+G+M+10 Building, Ras Abu Aboud

2015

400/132/66 kV Substation, Bul Hemmaid

2015

New Custom Training Center, Industrial Area

2015

3B+G+M+6T 5 Star Hotel, Al Muntazah

2014

B+G+P+20 Res. Building, Lusail

2014

Mosque, Rawdat Egdaim

2014

Ideal Market, Ainn Khalid

2014

Extn. Of Highway 55, Lusail

2013

400/132/66 kV Substation, Souq Waqif

2013

GTC-269, Bani Hajer

2013

Garage & Lab. Acco., Salwa Road

2013



# مختبرات الدوحة الفنية

#### **Exposure of Highway projects:**

#### **Relevant Previous Assignments**

**Project 1:** Feasibility studies and Inventorisation of NH-65

(Haryana border-Churu-Fatehpur-Nagaur-Jodhpur-Pali section) in Rajasthan for its Improvement to National

Highway Standards.

Duration: Jan 2003 to September 2003

Designation: Trainee Engineer

Client: PWD, Government of Rajasthan

Firm: CES (I) Pvt. Ltd.

<u>Project 2</u>: Developing Road Information System in National

Highways

Duration: Sep 2003 to Feb 2005
Designation: Assistant Engineer

Client: National Highways Authority of India

Firm: CES (I) Pvt. Ltd

Well versed with all types of engineering tests and surveys required for different highway projects viz., Sub-soil investigation (SPT, CPT, and Plate Load Test), C.B.R, Road inventory and pavement condition survey, Video graphic survey of road inventory and pavement condition, BBD survey, DCPT test, Axle load survey, Quarry materials surveys and investigation.

#### **Exposure on Quality:**

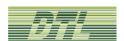
- Conducting internal as well as external audits as per the requirements of ISO 9001:2000 and ISO 17025: 2005
- Preparing plan for internal as well as external calibration, follow up and maintenance of all equipments
- Prepared all procedures for Quality Management System, and updating from period to period based on Local Authorities and ISO 17025:2005
- Recording all customer complaints, preventive and corrective actions and root cause analysis
- Conducting MR meetings every 6 monthly as per our manual
- Conducting IQC (Internal Quality Control) for all the tests conducted in concrete, soil, steel, chemical and field tests, analysis and reporting



# مختبرات الدوحة الفنية

- Participating in proficiency test program, making analysis and corrective action in case the Z score crosses the limits (± 3)
- Making training program for all the technicians throughout the year, analysis, evaluation and authorization
- · Maintenance of equipment files
- Maintenance of training files
- Maintenance and updating all the quality management system files
- Meeting with clients to clarify any doubts for customer satisfaction
- Acts as auditee when Dubai Municipality conducts audits for ISO 17025: 2005 requirements
- Acts as auditee when BVC (BVQI) conducts audit for ISO 9001:
   2000 requirements
- Making quotation for different projects for different client in absence of general manager
- Looking for full laboratory in absence of laboratory manager
- Acts as authorized signatory in absence of laboratory manager
- Responsible for maintenance of Rigs, mobilization of rigs
- Responsible for taking all the no objection certificates (NOC)
   from government authorities before commencement of work
- Responsible for all the subcontract work undertaken till reporting
- Responsible for purchase of equipment's, verification
- Responsible for making ASL for subcontractor and equipment's

THANK YOU FOR YOUR TIME



# مختبرات الدوحة الفنية



Contact: +974 66464682

Doha, QATAR

Mail Id:

#### SKILL 5

zia@dtl.com.ga

- Geophysics
- Geology
- Research
- Mapping

#### LANGUAGES

- Urdu
- Punjabi
- English
- Arabic

#### INTEREST

- Booking Reading
- Hiking
- Travelling

#### PERSONAL INFORMATION

Date of Birth: 18 January 1988 Nationality: Pakistani

#### SCHOLARSHIPS & AWARDS

- Received Laptop from Higher Education Commission of Pakistan under Prime Minister's Laptop Scheme for Youth
- · Fauji Foundation Scholarship
- CIDA Scholarship

#### ZIA-UL-QAMAR Geophysicist

#### **PROFILE**

- A team player able to work as an effective team member as well as, have ability to work independently without supervision.
- Excellent analytical, scientific writing and presentation skills.
- Comprehensive problem solving abilities and willing to learn new skills and techniques.
- Experienced in Geophysical Research, Data Acquisition, and Software based data Processing, Geophysical Interpretation and Geophysical Project Management.

#### **EDUCATION**

M. Sc. Geophysics, Department of Earth Sciences, Quaid-i-Azam University, Islamabad, Pakistan (2013)

BS Physics, Mathematics & Science Education, Federal College of Science Education, Punjab University, Islamabad, Pakistan (2011)

#### **WORK EXPERIENCE**

#### GEOPHYSICST

Since Nov'2019

**Doha Technical Laboratories** 

Doha-Qatar

#### **KEY RESPONSIBILITIES:**

- Geophysical Survey Planning and coordinate with site Engineer/Geophysicist for data acquisition.
- Prepare Geophysical Method Statements and SOP documents.
- Participate in meeting with customers and site visits.
- Software based data processing and Interpretation of results.
- Preparation of Interpretive Geophysical Reports.
- Oversee maintenance and Geophysical equipment purchase technical aspects.

#### GEOLOGICAL ENINGEER

Nov'2015 to Oct'2019

Arabesque Laboratories for Soil Testing

Abu Dhabi, UAE.

- Involved in planning, conducting and managing a variety of field geophysical surveys and data processing.
- Software based Geophysical data Processing and QA/QC.
- Data Acquisition & interpretation for mapping bedrock depth & discontinuities using MASW (Multi-Channel Analysis of Surface Waves) & other near surface geophysical methods.
- Geophysical investigation for karst geotechnical and risk assessment studies including mapping voids, solution cavities, groundwater pathways, variations in rock quality, formational contacts, stratigraphic discontinuities, structural lineaments and problem associated with soft soils using MASW and geotechnical boring data.
- Extensive working experience within Abu Dhabi (City & Western Region) and Al Ain Region.
- Geophysical interpretive report preparation comprising of review and integration of geophysical studies with subsurface exploration geotechnical engineering for analysis of karst geotechnical and risk assessment studies including mapping voids, solution cavities and sinkholes.
- Assisting in management of Geophysical Section and preparation of quotation for Geophysical Section.



# مختبرات الدوحة الفنية

#### SOFTWARE SKILLS

I have sound knowledge of Computers and its application.

- Deep Seismic: IHS Kingdom Suit Petrel, K-Tron Suit (X-Work, Seira, VAS)
- Shallow Seismic: Surfseis 6.0, Parkseis 2.0, Seisimager 2D, Seismodule Controller Win Geo-T 2.6.12
- ERT: Res2Dinv & ResMod
- GPR: Reflex 2D
- QC/Geometry/Processing: Geo Giga Front End, Mesa
- GIS & Mapping Software: ArcGIS, Surfer 11.0 K-Tron Precision Matrix, Auto-CAD, Google Earth, Voxler
- Programming:
   C, Visual BASIC, Matlab
- Operating Systems: LINUX /Windows XP/7/8/10
- General Software: MS Office, SPSS, Snagit, Freehand

#### PROFESSIONAL MEMBERSHIPS

- Member of Society of Exploration Geophysicists (SEG)
- Member of Pakistan Geophysical Network (PGN)
- Member of Society of Petroleum Engineers (SPE)
- Member of European Association of Geoscientists and Engineers (EAGE)

#### GEOPHYSICIST

Aug'2013 to Oct'2015 Geophysical Services Pvt Ltd, Islamabad. Pakistan.

#### **KEY RESPONSIBILITIES:**

- Involved in planning, conducting and managing a variety of field geophysical surveys including Shallow Seismic (Reflection, Refraction & Downhole/Up-hole surveys), Electrical Resistivity Surveys for Geotechnical investigation and water exploration.
- Interpretation of 2D Seismic Data and well correlation. Performing Velocity Analysis and calculation of elastic moduli.
- Worked as a site Geophysicist conducting and preparing general plans for resistivity surveys for groundwater exploration and conducted VES, Profiling and interpretation of resistivity data.
- Geophysical Interpretive Report representing correlation of geophysical studies with subsurface exploration geotechnical engineering & Hydrogeological analysis and identification of anomalous zones.

#### RESEARCH PROJECTS

- M. Sc Thesis: "2D Seismic data Interpretation, Rock Physics, 2D Modelling, Crustal Shortening and Petro physical Analysis of Fimkassar Area along Seismic Attribute Analysis, of Upper Indus Basin in Pakistan"
- BS Thesis: A study on "Stress-Coping Strategies adapted by BS Level students at Federal College, Islamabad"

#### TRAINING & FIFLD TRIPS

#### Geological & Seismological Field Trips

- ❖ Geological Field works on Eastern & Western Salt range and Hazara Kashmir syntaxes, in Pakistan.
- Seismological & Metrological field work on Tarbela & Mangla dams of Pakistan.

#### Training Workshops & Seminars

- Successfully attended various trainings, seminar, workshops & courses;
- Attended two days online training on "Petrel Software Data Loading, Data Management, Seismic Interpretation & Well Correlation" held by Unemployed Geophysical Society (UGS) in (2017).
- Attended two day workshop on "2D & 3D ERT Survey and Data Interpretation Workshop" held by Drill Well Middle East (DWC) L.L.C. in Dubai, U.A.E. (2017)
- Attended three day workshop on "Geo-informatics Application in Agriculture & Hydrology" at Climate Change, Alternate Energy and Water Resources Institute (CAEWRI), NARC, Islamabad, Pakistan. (2016)
- Attended one day workshop on "Shale Gas Evaluation" held at Bahria University, Islamabad, Pakistan. (2014)
- Attended one day seminar on "Exploring HR Practices in Oil & Gas Industry" organized by PPEPCA and QASMS, held at Quaid-i-Azam University, Islamabad, Pakistan. (2012)

THANK YOU FOR YOUR TIME



# DTL QUALITY AND HSE POLICY



# مختبرات الدوحة الفنية

Doha Technical Laboratories



مختبرات الدوحة الفنية



Doha Technical Laboratories has identified the following as its objectives for achieving customer confidence and satisfaction:

- Provide accurate and reliable test results
- Completion of job on time
- Providing test reports with information as required by standard and requested by the client
- Improve quality of service with possible means
- Assure availability of qualified, professional and properly trained staff for all the works undertaken
- Strictly observe confidentiality on customer's property.

Doha Technical Laboratories management is committed to good professional practice and to the quality of testing.

Doha Technical Laboratories Quality Manual and its associated procedures are a documented system to implement the requirements of ISO 17025:2017 and for continual improvement of the system

The Laboratory ensures that all personnel are familiar themselves with the quality documentation and implement policies and procedures in their work.

January 01, 202

Laboratory Manage

ha Technical Laboratories Date

DTL/F/Pol/001 Rev. 0 Date: 01-01-2022 Page 1 of 1

هاتف: ٤٤٦٠ ٧٥٠٨؛ فاكـــس: ٤٤٦٠ ٧٥٥٧؛ ص.ب: ٤٠٤٦١؛ س.ت: ٤٣٦٥٩، مسيعيد - قــطر، البريد الإلكتروني: īrifo@dtl.com.qa T: 4460 7508, F: 4460 7552, P.O.Box: 40462, C.R. No. 43659, Mesaieed - Qatar, Email: info@dtl.com.qa - Web: www.dtl.com.qa





مختبرات الكوحــة الفنيـــة



At Doha Technical Laboratories, occupational health, safety of employee and protection of environment is our prime concern and important objective. We are conscious of our responsibility for creating, maintaining and ensuring safe and clean environment; reduce health and safety hazards through application of efficient technology and safe work practices for sustainable development.

We are committed to;

- ✓ Prevention of industrial risk rather than detection / rectification and its adverse impact on the environment / employees,
- ✓ Follow safe work practices and continually improve the effectiveness of system,
- ✓ Creating an environment of teamwork as well as increase the system awareness to all employees,
- ✓ Conserve natural resources by their responsible and efficient use in all our operations,
- ✓ Comply with relevant laws and regulations as well as take any additional measures considered necessary,
- ✓ Preserve the health, safety and the environment of site and its neighborhood,
- ✓ Transport the materials safely

Make this policy available to the public.

Laboratory Månager

Oha Technical Laboratories

DTL/F/Pol/003 Rev. 0 Date: 01-01-2022 Page 1 of 1

January 01, 2023

Date

هاتف: ٤٤٦٠ ٧٥٠٨ ، فاكـــس: ٤٤٦٠ ٧٥٥٢ ، ٤٤٦٠ م. س.ت: ٤٣٦٥٩ ، مسبعيد - قــطر، البريد الإلكتروني: ٢: 4460 7508, F: 4460 7552, P.O.Box: 40462, C.R. No. 43659, Mesaieed - Qatar, Email: info@dtl.com.qa - Web : www.dtl.com.qa

# SUMMARY OF THE POLICIES, PROCEDURES & IMPLEMENTATION OF THE QUALITY SYSTEM AT D.T.L



مختبرات الدوحة الفنية

# SUMMARY OF THE POLICIES AND PROCEDURES & THE IMPLEMENTATION OF THE QUALITY SYSTEM AT DOHA TECHNICAL LABORATORIES

#### **ORGANIZATION**

DOHA TECHNICAL LABORATORIES is registered in the State of Qatar as provider of testing services in the fields of soil, rocks, concrete, aggregates and asphalt covering physical and chemical testing.

The laboratory is located in Mesaieed Industrial City (MIC) P.O Box 40462 Zone 92, Street No. 356, Building No. 62, Mesaieed, Qatar. Plant and all the tests are carried out in this facility. (Please refer the location map)

The Quality assurance and implementation of the Quality Management system is the responsibility of the Quality Manager & Laboratory Manager. The Operation of the laboratory including the operational aspects in the responsibility of the Technical Manager.

The Laboratory has adequate supervision, equipment and qualified personnel to carry out the tests.

#### MANAGEMENT SYSTEM

The Laboratory has established a Quality Management System (QMS) consisting of the Quality Manual, Standard Operation Procedures (SOP) and Forms, covering its testing activities, which satisfies the requirement of the ISO/IEC 17025 Standards. The Quality Policy and objectives are documented and are reviewed on an annual basis.

#### DOCUMENT CONTROL

Responsibility for review and approval of controlled documents covering Quality Manual, Standard Operating Procedures and Quality Procedures is covered in Section 8.2 of the Quality Manual. Master lists covering the procedures and forms are maintained by the lab quality manager with assistance from the Document Controller. The review and approval of all controlled documents follow the document control process. Approved documents are distributed in accordance to the distribution list.

The Quality Manager (with assistance from the Document Controller) is responsible for ensuring that all obsolete documents are removed from all distribution points and keeping the master copy of the obsolete documents in the obsolete document file. This process is paper based and it's the policy of the laboratory not to allow any handwritten amendments. Two master lists are maintained one for SOPs and the other for Laboratory Operating Procedures.



مختبرات الدوحة الفنية

#### SUBCONTRACTING OF TESTS

The Laboratory does not subcontract tests to outside laboratories.

#### SERVICE TO THE CUSTOMER

Bi-annually customer satisfaction survey is conducted. All feedbacks from customer are reviewed in management review meeting.

#### **COMPLAINTS**

All complaints are recorded in compliant form and forward to Quality Manager who logs the complaint on a non-conformance report and follows through.

#### **CONTROL OF RECORDS**

Management system and technical system records are controlled by Quality Procedures. These records are in both in electronic and paper format. The retention times of both forms of documents (3 years for test reports) are specified.

Most of the technical records are in paper format and records from raw data to final report are identified and filed under the name of the client and filed in the archive room in ascending order.

For electronic records, the laboratory makes sure that the backup of all records are stored in the secured server.

#### **INTERNAL AUDITS**

Internal audit is scheduled bi-annually. This audit covered both quality system and test procedures. The non-conformances identified and documented the root cause, disposition of the non-conformity and follow-up has been recorded. All our internal auditors have been taken the internal auditors training course conducted by ISO Consultancy Services/IAS/BSI.

#### MANAGEMENT REVIEW MEETING

Management review meetings are scheduled on a bi-annual basis. The suitability and effectiveness of the quality management system and the adequacy of the quality policy and objectives were reviewed during this meeting.

#### **PERSONNEL**



# مختبرات الدوحة الفنية

The laboratory is staffed by permanent personnel and it's the lab policy not to hire any contract staff. The laboratory personnel have number of years of experience in their fields of expertise. Both in-house trainings, on-the-job trainings and external trainings are supervised by the trainer assigned by the laboratory manager. Training records are assessed, evaluated and documented.

#### TEST METHODS AND METHOD VALIDATION

The laboratory uses only established and published test methods. The laboratory does not get involved in developing their own test methods or uses non standards methods.

#### **UNCERTAINITY MEASUREMENTS**

The Laboratory personnel are familiar with the calculation of measurement uncertainty and have identified the factors that contribute to the uncertainty. The laboratory has developed a program for the calculation of uncertainty.

#### **EQUIPMENT**

The equipment in the laboratory has asset numbers and are uniquely identified. Instruction Manuals, calibration certificates, identification and calibration stickers and copies of application correction factors as well as quality control charts are well maintained.

#### MEASUREMENT TRACEABILITY

Measurement traceability was confirmed during the assessment by confirming calibration of equipment and traceability of calibration methods as per the requirement of ISO/IEC 17025 standards.

Reference standards, certified reference materials in position of the lab have current calibration status, expiry date and certificate of analysis as appropriate and are up to date.

#### HANDLING OF TEST ITEMS

The handling of test items was reviewed for conformance with ISO/IEC 17025 standards. During the assessment, it was noted and typically test items are identified in a clear and consistent manner allowing traceability of the test items/specimens during the extent of use in the laboratory. The sample receiving, storage and disposal areas are well marked.

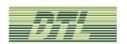
#### **ASSURING THE QUALITY OF TEST RESULTS**

The laboratory has established an inter laboratory testing system with at least three (3) ISO/IEC accredited labs in Qatar.

#### REPORTING OF TEST RESULTS

Test reports generated by the laboratory was examined and found to comply with the requirement of the standar

# **COMPANY EXPERIENCE**



# مختبرات الدوحة الفنية

# LIST OF DOHA TECHNICAL LABORATORIES (DTL) PROJECTS Form No. DTL/F/Mi/959 Revision 0 Date: 20/06/2018 Page 1 of 1

S/NO.	YEAR	PROJECT NAME	PROJECT NO. / CONTRACT NO.	CLIENT	CONSULTANT	CONTRACTOR
1	2023	PICK UP/DROP OFF AT QROC	PO 450292029	HAMAD INTERNATIONAL AIRPORT	-	TRADING AND AGENCY SERVICES LTD WLL
2	2023	ROAD IMPROVEMENT WORKS IN SOUTHERN AREAS (2021)	PA/2021/C/041/G / C- 2022/37	ASHGHAL	DORSCH QATAR	MOKASCO EXPRESS CO./PAPILLON CONTRACTING & SERVICES JV
3	2023	DESIGN & BUILD OF ADDITIONAL BUILDING WORK AT AMIRI GUARD CAMP AT LUSAIL	1174	PRIVATE ENGINEERING OFFICE	CEG INTERNATIONAL	AL ALI ENGINEERING CO.
4	2023	DESIGN AND BUILD OF GRANDSTAND IN AL-UQDA EQUESTRIAN COMPLEX	BP/2020/C/009/I	ASHGHAL	EGEC QATAR	BRICKSTONE TRADING & CONTRACTING
5	2023	DEVELOPMENT OF QATAR UNIVERSITY HIGHER ADMINISTRATION	-	QATAR UNIVERSITY	LACASA QATAR	ISMAIL BIN ALI GROUP
6	2023	CALL-OFF PRICE AGREEMENT FOR LANDSCAPING, IRRIGATION, ANCILLARY WORKS AND TSE INFRASTRUCTURE	PA/2021/C/028/G / C- 2022/024	ASHGHAL	DORSCH QATAR	BOOM GENERAL CONTRACTORS WLL
7	2022	PROPOSED AL MEERA HYPERMARKET & MIXED- USE DEVELOPMENT (G)	ALT/TD/PTC-2-C/22	AL MEERA	ARAB ENGINEERING BUREAU	AL ATTIYAH ARCHITECTURAL CONSTRUCTION
8	2022	TRAINING SITE PROGRAMME	-	-	SUPREME COMITTEE FOR DELIVERY & LEGACY	CINI PRECAST



9	2022	RIW FOR JUNSCTIONS & ROUNDABOUTS IN VARIOUS AREAS IN GREATER DOHA PHASE-9	PA/2019/C/073/G / C- 2020/60	ASHGHAL	KEIC	JH CONSTRUCTION
10	2022	DESIGN & BUILD OF AUTO CLUSTER ROADS & INFRASTRUCTURE (FIRST PHASE) AT UMM	-	QATAR FREE ZONE	AL KHALEEJ ENGINEERING & INDUSTRIAL CONSULTANCY (KEIC)	PORR QATAR CONSTRUCTION W.L.L.
11	2022	NORTH FIELD EAST PROJECT ONSHORE LNG FACILITIES (DESALINATION PLANT)	LTC/C/NFE/3945/18	QATAR GAS	-	AMMICO CONTRACTING CO. W.L.L.
12	2022	CONSTRUCTION, COMPLETION AND MAINTENANCE OF RESIDENTIAL BUILDING (2B+G+10F+RF)	-	SHEIKH ABDULRAHMAN HAMAD AL THANI	LACASA ARCHITECS & ENGINEERING CONSULTANTS	AL ATTIYAH ARCHITECTURAL CONSTRUCTION
13	2022	MILAHA SHIPYARD - UPGRADE OF MARINE FACILITIES	UP.0881	MILAHA	KHATIB & ALAMI	URBACON TRADING & CONTRACTING
14	2022	ABRAJ AL TAWILIYA PROJECT, WEST BAY, QATAR	-	QMIC	ARAB ENGINEERING BUREAU	REDCO AL MANA
15	2022	CONSTRUCTION OF FIRE LIFE SAFETY MODIFICATION WORKS FOR EXISTING 54 NOS. GOVERNMENT SCHOOLS AND KINDERGARTENS-PACKAGE TWO (28) NOS. SCHOOLS	PWA/STC/056/2021/L / BP/2021/C/014/S	ASHGHAL	GULF CONTRACTING GROUP (GCG)	BRICK STONE TRADING & CONTRACTING
16	2022	MILAHA SHIPYARD-UPGRADE OF EXISTING FACILITIES	-	MILAHA	-	URBACON TRADING & CONTRACTING
17	2022	CENTRAL DOHA AND CORNICHE BEAUTIFICATION PROJECT (P02)	PA/2019/C/106/G / C- 2020/102	ASHGHAL	PARSONS	JH CONSTRUCTION
18	2022	AL WAAB CITY CENTRAL DISTRICT PHASE 1 PACKAGE 4 (PARCEL 1 & 2)	J047	AL WAAB CITY	CEG INTERNATIONAL	DOMOPAN QATAR



19	2022	MILAHA SHIPYARD FIRE FIGHTING AND FIRE ALARM SYSTEM UPGRADE	MPCS/2020/40/EA	MILAHA	-	URBACON TRADING & CONTRACTING
20	2022	CONSTRUCTION OF EXTENSION AND RENOVATION WORKS FOR NCC AT AL THUMAMA AREA	GTC929/2019	KAHRAMAA	UNITED CONSULTANTS	AL AJJAJ LIMITED COMPANY (AALCO)
21	2022	PROJECT ALAR HOTEL DEVELOPMENT - N9 & N10 PHASE 01 - BOXPARK & RAMP	-	THORNHAM	SHAKER CONSULTANCY COMPANY	PORR QATAR CONSTRUCTION W.L.L.
22	2022	DESIGN AND BUILD IF BUS STOP SHELTER AND ASSOCIATED INFRASTRUCTURES	BP/2020/C/034/G / C- 2021/005	ASHGHAL	AECOM	BOJAMHOOR TRADING AND CONTRACTING
23	2022	CONSTRUCTION OF FIRE LIFE SAFETY MODIFICATION WORKS FOR EXISTING 54 NOS. GOVERNMENT SCHOOLS AND KINDERGARTENS-PACKAGE TWO (26) NOS. SCHOOLS	PWA/STC/056/2021/L / BP/2021/C/014/S	ASHGHAL	GULF CONTRACTING GROUP (GCG)	BRICK STONE TRADING & CONTRACTING
24	2022	GEOTECHNICAL INVESTIGATION FOR TWO NEW CAR PARKS IN AL UDEID AIR BASE PROJECT	W912ER22C0009	QATAR ARMED FORCES	-	ALCAT CONTRACTING
25	2022	CONSTRUCTION AND UPGRADING OF MESAIMEER ROAD SABAH AL AHMAD CORRIDOR (P008-C3)	IA/2017/C/002/G / C-2018/23	ASHGHAL	PARSONS INTERNATIONAL LTD.	CCC/TEYSEER JV
26	2022	HAMAD INTERNATIONAL AIRPÓRT EXPANSION PROJECT - HIAP- 00014	HIAEP00014	QATAR COMPANY FOR AIRPORT OPERATION AND MANAGEMENT (MATAR)	HILL-DAR JV	AL JABER ENGINEERING WLL
27	2022	CONSTRUCTION OF EXTENSION AND RENOVATION WORKS FOR NCC AT AL THUMAMA AREA	GTC929/2019	KAHRAMAA	UNITED CONSULTANTS	AL AJJAJ LIMITED COMPANY (AALCO)
28	2022	ROADS AND INFRASTRUCTURE IN AL EBB AND LEABAIB-PACKAGE 04	IA/2019/C/052/G / C- 2020/031	ASHGHAL	CEG INTERNATIONAL	QBS INTERNATIONAL WLL



29	2022	BLOOD PROCESSING CENTRE- BUILDING 327	MC.GN.21	HAMAD MEDICAL CORPORATION	-	TADMUR CONTRACTING W.L.L.
30	2022	ROAD IMPROVEMENT WORKS IN DOHA CITY-PHASE 1 (DC083)	PA/2020/C/067/G / C- 2022/08	ASHGHAL	PARSONS	JAK CONSTRUCTION
31	2022	DEVELOPMENT PROJECT OF AL SHYOUKH PORT PHASE-2	22011	PRIVATE ENGINEERING OFFICE	CEG INTERNATIONAL	AL ALI ENGINEERING CO.
32	2022	HAMAD INTERNATIONAL AIRPORT EXPANSION PROJECT	HIAEP-0013	QATAR COMPANY FOR AIRPORT OPERATION AND MANAGEMENT (MATAR)	HILL-DAR JV	MIDMAC-TAV-TAISEI JV
33	2022	RIW (SLCD) PARK AND RIDE AND NON-STADIUM BUS INFRASTRUCTURE WORKS	PA/2021/C/024/G / C- 2022/03	ASHGHAL	PARSONS INTERNATIONAL LIMITED	QATAR BUILDING COMPANY
34	2022	FRAMEWORK AGREEMENT FOR CALL-OFF CONTRACTS FOR LANDSCAPING, IRRIGATION AND ANCILLARY WORKS	IA/2018/C/030/G / C-2019/76	ASHGHAL	ITAL CONSULT	AG MIDDLE EAST
35	2022	CALL OF CONTRACT FOR MISCELLANEOUS CIVIL WORKS AT VARIOUS ONSHORE OPERATIONAL AREAS FOR GAS OPERATION OF QP MESAIEED	GC-21101000	QATAR ENERGY	-	AL WAHA TRANSPORT, MAINTENANCE AND CONTRACTING COMPANY W.L.L.
36	2022	WORK ORDER NO: HC-01 QATAR NORTH FW-01/2021	PWA/GTC/034/2020 / PA/2020/C/037/G / C- 2021/84	ASHGHAL	-	LOTUS TRADING & CONTRACTING CO. W.L.L.
37	2022	DESIGN AND BUILD FOR AL ASMAKH AREA 02 & 03	NP/2020/C/058/G / C- 2021/083	ASHGHAL	ARAB ENGINEERING BUREAU	AL ALI ENGINEERING CO.
38	2022	DESIGN AND BUILD OF THE NMOQ ENERGY PLAYGROUND	BP/2021/C/025/S / C- 2021/79	ASHGHAL	ASHGHAL	GENERIC ENGINEERING TECHNOLOGIES &



						CONTRACTING W.L.L.
39	2022	DESIGN & BUILD OF ID WORKS FOR QATAR NATIONAL ARCHIVE - MUSHEIREB	21-009	PRIVATE ENGINEERING OFFICE	CEG INTERNATIONAL	AL ALI ENGINEERING CO.
40	2022	PROPOSED LUXURY HOTEL (3B+G+1+M+6+P)	-	AL DARWISH NATIONAL CONT. CO.	ENG. ADNAN SAFFARI	CHINA RAILWAY 18TH BUREAU GROUP WLL
41	2022	DOHA PORT REDEVELOPMENT PROJECT - GRAND TERMINAL PACKAGE	-	SUPREME COMMITTEE FOR DELIVERY & LEGACY	DAR	AL JABER TRADING & CONTRACTING CO. W.L.L.
42	2022	GEWAN ISLAND HOTEL & BEACH CLUB, VILLAS AND GOLF COURSE MAIN WORKS PACKAGE	18-5597	UNITED DEVELOPMENT COMPANY	KEO INTERNATIONAL CONSULTANTS	REDCO INTERNATIONAL
43	2022	Q-TERMINALS GOLDEN GATE PROJECT (QTGGP) PHASE-1	C-318	Q-TERMINALS	QATAR DESIGN CONSURTIUM W.L.L.	QATAR BUILDING COMPANY
44	2022	DESIGN, ENGINEERING, SUPPLY, INSTALLATION, TESTING AND COMMISIONING OF SYNTHETIC NATURAL GAS (SNG) FARM G2 AT WADI-2 IN LUSAIL CITY QATAR	MQ-PS/GSS#05-SNGF-G2- LC/21/064	MARAFEQ QATAR	-	PETROSERV LIMITED
45	2022	WALKWAY - DESIGN AND BUILD OF RAS BUFONTAS	-	QATAR FREE ZONES AUTHORITY	GEIC QATAR	PORR QATAR CONSTRUCTION W.L.L.
46	2022	ROAD & INFRASTRUCTURE IN AL EGDA, AL HEEDAN & AL KHOR PACKAGE 01	IA/2018/C/051/G	ASHGHAL	CDM SMITH	AL DARWISH ENGINEERING
47	2022	CONSTRUCTION OF SATELLITE MONITORING SYSTEM	PB/2020/C/018/S / C- 2021/80	ASHGHAL	GULF CONSULTING GROUP	BRICKSTONE TRADING & CONTRACTING
48	2022	CONSTRUCTION COMPLETION & MAINTENANCE OF GWC AL	-	GULF WAREHOUSE CO (GWC)	QATAR DESIGN CONSURTIUM W.L.L.	AL ALI ENGINEERING CO.



		WUKAIR LOGISTIC PARK - PHASE 2 (PACKAGE-1)				
49	2022	ROAD AND INFRASTRUCTURE IN NORTH OF MALL OF QATAR AND CELEBRATION ROAD - PACKAGE 2	PA/2019/C/067/G / C- 2020/32	ASHGHAL	CDM SMITH	QBS INTERNATIONAL WLL
50	2022	RIW IN VARIOUS AREAS OF GREATER DOHA (SC)	PA/2019/C/082/I / C-2021/61	ASHGHAL	PARSONS INTERNATIONAL LIMITED	INTERNATIONAL HEAVY EQUIPMENT TRANSPORT & TRADING
51	2022	CONSTRUCTION OF R&I IN UMM SLAL ALI, UM EBAIRIYAVILLAGE, SOUTH UM AL AMAD & NORTH BU FESSELA-PACKAGE 01	PA/2020/C/050/G / C- 2021/38	ASHGHAL	WSP INTERNATIONAL	METITO OVERSEAS QATAR W.L.L.
52	2022	CONSTRUCTION OF REMAINING WORKS AT INSPECTION PLATFORM AT AL RUWAIS PORT	MW/TAC/TEN/264	MWANI QATAR	-	SBN CONTRACTING
53	2022	CONSTRUCTION OF INFRASTRUCTURE & SUPPLY AND INSTALL CHARGING EQUIPMENT FOR ELECTRICAL BUSES	BP/2020/C/028/G / C- 2021/21	ASHGHAL	AECOM	MANNAI TRADING CO. W.L.L.
5 <i>4</i>	2022	DESIGN AND BUILD THREE (3) PLAZA AREAS AT QATAR MUSEUMS CULTURAL DISTRICT	BP/2020/C/061/S	ASHGHAL	GULF CONSULTING GROUP	BOOM GENERAL CONTRACTORS
55	2022	CONSTRUCTION OF WOQOD FUEL STATION AT ONAIZA 2	QF/01/C/04/11211108/71/21	WOQOD (QATAR FUEL)	-	AL-ALJJAJ LIMITED COMPANY W.L.L.
56	2022	DESIGN, ENGINEERING, PROCUREMENT, CONSTRUCTION, TESTING & COMMISIONING OF SYNTHETIC NATURAL GAS (SNG) FARM (G) AT WADI-2, LUSAIL CITY	-	MARAFEQ QATAR L.L.C	TEBODIN	PETROSERV LIMITED
57	2022	AL ATTIYAH WPS 2 (DESERT OASIS)	QF/01/C/04/11211165/73/21	WOQOD (QATAR FUEL)	-	AL ATTIYAH ARCHITECTURAL CONSTRUCTION



58	2022	MEKAINES2-WPS (RAWDAT EDGHAIM)	QF/01/C/04/11211069/70/21	WOQOD (QATAR FUEL)	-	AL ATTIYAH ARCHITECTURAL CONSTRUCTION
59	2022	RENOVATION AND EXTENSION (DESIGN & BUILD) OF SHOURA COUNCIL BUILDINGS-PACKAGE-1 & PACKAGE-3	-	PRIVATE ENGINEERING OFFICE	GHD	REDCO AL MANA
60	2022	ROADS AND INFRASTRUCTURE IN AL KHEESA NORTH & EAST (RAWDAT AL HAMAMA DISTRICT) - PACKAGE 02	DN071-P02 / C-2021/45	ASHGHAL	WSP INTERNATIONAL	CHINA RAILWAY CONSTRUCTION CORPORATION LIMITED
61	2022	ROAD IMPROVEMENT WORKS IN NORTHERN AREAS 2021	NA087 / C-2021/72	ASHGHAL	WSP INTERNATIONAL	AL MOHANNADI FOR ROADS TRADING & CONTRACTING
62	2022	HC_002_QW_MISCELLANEOUS HOUSE CONNECTION WORKS, QATAR WEST	PA/2020/C/037/GF / C- 2021/81	ASHGHAL	ASHGHAL	MACE QATAR
63	2022	INTERIM ROAD IMPROVEMENT DOHA SOUTH PHASE - 2	PA/2019/C/074/G / C- 2020/33	ASHGHAL	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	AL MOHANNADI FOR ROADS TRADING AND CONTRACTING W.L.L.
64	2021	ROADS AND INFRASTRUCTURE IN SEMAISMA - PACKAGE 2 (SOUTH)	DS140	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	AL JABER AND PARTNERS
65	2021	CONSTRUCTION OF SITE 04 - GHARRAFA BUS STATION	BA/2019/C/040/I / C-2020/71	ASHGHAL	AECOM	TOTAL TRADING AND CONTRACTING / AL MADAR CONSTRUCTION COMPANY
66	2021	EPIC DRAINAGE GROUNDWATER DRAINAGE SYSTEM IN MESAIEED- PHASE 1	4226 / GC19111000	QATAR ENERGY	-	METITO OVERSEAS QATAR W.L.L.
67	2021	MARSA ACCESS ROAD	-	QATAR FREE ZONE AUTHORITY	GEIC QATAR	PORR QATAR CONSTRUCTION W.L.L.



68	2021	DESIGN & BUILD OF ROADS & INFRASTRUCTURE AND SECURITY SYSTEM OR DEVELOPMENT OF GOVERNMENT BUILDING IN SOUTHWEST OF THE COUNTRY	SA-048 / BP/2020/C/060/G / C-2021/64	ASHGHAL	WSP INTERNATIONAL	TADMUR CONTRACTING W.L.L.
69	2021	N-100	U0762DBNE	QATAR ARMED FORCES	-	URBACON TRADING & CONTRACTING
70	2021	DESIGN, BUILD, OPERATE AND MAINTAIN (DBOM) CONTRACT FOR INTEGRATED INDUSTRIAL WASTEWATER TREATMENT WORKS (IIWWTW) PHASE 1 (CP 798)	CP798 / IA/14- 15/C/133/G/R2 / C-2021/2	ASHGHAL	EGIS INTERNATIONAL	LARSEN & TOUBRO LIMITED
71	2021	DESIGN AND BUILD OF MARSA ACCESS ROAD AND MARINE PLATFORM AT UMM ALHOUL	UAH (021/2020)	QATAR FREE ZONE AUTHORITY	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	PORR QATAR CONSTRUCTION W.L.L.
72	2021	ROADS & INFRASTRUCTURE IN AL KHARAITIYAT & IZGHAWA - PHASE 1 (PACKAGE 4)	DN004-P04 / IA/2018/C/070/G / C-2020/11	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	AL DARWISH ENGINEERING W.L.L.
73	2021	RIW IN NORTHERN AREAS PHASE 5	PA/2020/C/055/G / C- 2021/65	ASHGHAL	WSP	INTERNATIONAL HEAVY EQUIPMENT TRANSPORT & TRADING
74	2021	DESIGN & BUILD FOR CONSTRUCTION OF TWO (2) NUMBER OF QUARANTINE VETERINARY AND LABORATORY NEXT TO RUWAIS SEA PORT AND NEW HAMAD SEA PORT	BP/20020/C/002/I / C- 2020/114	ASHGHAL	ENGINEERING CONSULTANT GROUP (ECG)	AL MADAR CONTRACTING WLL
75	2021	CONSTRUCTION AND FIT OUT OF BUILDINGS FOR DOHA EXPO-2023	BP/2019/C/049/G / C-2021/8	ASHGHAL	DAR AL HANDASAH	TADMUR CONTRACTING W.L.L.



76	2021	DESIGN AND BUILD AND MARINE WORKS OF COAST GUARDS STATIONS	BP/2020/024/I / C-2021/70	ASHGHAL	ARAB ENGINEERING BUREAU	UNITED INTERNATIONAL TRAD. & CONT. WLL
77	2021	CONSTRUCTION OF CCTV SYSTEM AND CONTROL BUILDING IN AL WAKRA AND JERY AL SAMUR LOGISTICS PARKS	LP00-CW01-CON-20	MANATEQ	JAMES CUBITT & PARTNERS	ENERGY TECHNICAL SERVICES W.L.L.
78	2021	MJ 183 PACKAGE 01 (ENABLING), PACKAGE 02 (CONSTRUCTION) FOR W BEACH HOTEL AT OLD KOREAN EMBASSY, DIPLOMATIC DISTRICT, DOHA-QATAR	-	NOZUL REAL ESTATE	UNIVERSAL DESIGN CENTER	MEDGULF CONSTRUCTION W.L.L.
79	2021	GAC NEW WAREHOUSE FACILITY IN RAS BU FONTAS FREE ZONE	P22102	GULF AGENCY COMPANY	IBLS	AL SAFWA TRADING & CONTRACING
80	2021	AL SADD HEALTH CENTER, PACKAGE 10	BS/2017/C/010/G / C- 2018/06	ASHGHAL	ECG	AL MADAR CONTRACTING WLL
81	2021	ROADS AND INFRASTRUCTURE IN AL WAJBA EAST PACKAGE 03	DW016-P03 / IA/2019/C/018/G	ASHGHAL	ITAL CONSULT	GALFAR AND INFRASTRUCTURE IN AL WAJBA EAST PACKAGE 03
82	2021	CONSTRUCTION OF ROADS WITHIN AL KARAANA SPECIAL ECONOMIC ZONE - AREA 2	EZ02-CW03-TND-21	MANATEQ	JAMES CUBITT & PARTNERS	CLEOPATRA TRADING & TRADING
83	2021	5 VILLAS & MAJLIS	P120	-	FD CONSULT	HARFOUCHE TRADING & CONTRACTING
84	2021	RIW IN VARIOUS AREAS OF QATAR SOUTHERN AREAS (SC)	PA/2019/C/048/I / C-2021/18	ASHGHAL	DORSCH QATAR	TURNKEY TRADING AND CONTRACTING
85	2021	PORTO ARABIA YACHT CLUB PROJECT	-	UNITED DEVELOPMENT COMPANY	DSG	CHINA RAILWAY 18TH BUREAU GROUP CO.



86	2021	ETQAN INTERNATIONAL SCHOOL PHASE-2	-	ETQAN GLOBAL ACADEMY	HANY TAWFIK CONSULTING OFFICE (HTCO)	CONSTRUCTION DEVELOPMENT CONTRACTING AND TRADING (CDCT)
87	2021	HAMAD INTERNATIONAL AIRPORT EXPANSION PROJECT	-	QATAR COMPANY FOR AIRPORT OPERATION AND MANAGEMENT (MATAR)	HANY TAWFIK CONSULTING OFFICE (HTCO)	CONSOLIDATED CONTRACTOR GROUP (OFF SHORE) / TEYSEER CONTRACTING (CCC/TCC JV)
88	2021	EPIC FOR UPGRADE OF FIRE DETECTION AND FIRE FIGHTING SYSTEM IN EXISTING CORE- DUKHAN	4211 / GC19110400	QATAR PETROLEUM	-	CONTROL CONTRACTING & TRADING CO.
89	2021	DESIGN & BUILD LUSAIL PALACES	C-P-16-26-DB-01	PRIVATE ENGINEERING OFFICE	THE ARAB ARCHITECS	URBACON TRADING & CONTRACTING
90	2021	RIW IN SOUTH OF GREATER DOHA ZONE 90 TO 95 PHASE-6B	IA/2019/C/021/I / C- 2020/105	ASHGHAL	DAR AL HANDASAH	AL MUNTASSER CONTRACTING AND TRADING
91	2021	RIW IN SOUTHERN AREAS	PA/2020/C/006/G / C- 2021/19	ASHGHAL	DORSCH QATAR	NEW HORIZON CONTRACTING & MAINTENANCE WLL
92	2021	CONSTRUCTION OF SR124  NETWORK REAL TIME  MONITORING PHASE II - AZIZIYA  UNDERGROUND STORAGE TANK	AA/DOM/13-14/M/1591- 4.07/G / C-2020/111	ASHGHAL	PARSONS	METITO OVERSEAS QATAR W.L.L.
93	2021	C821/3,4,5-CONSTRUCTION OF FOUL SEWER, STORM WATER AND GROUNDWATER NETWORKS FOR VARRIOUS CATCHMENTS WITHIN DOHA WEST	IA/2018/C/26 / C-2019/72	ASHGHAL	ASCO QATAR	NATIONAL INDUSTRIAL CONTRACTING COMPANY
94	2021	HOUSE CONNECTION PACKAGE-1 PHASE-2 MISCELLANEOUS HOUSE CONNECTION WORKS (ON CALL CONTRACT # OC-02/2020)	PA/D-HC/2020/C/116/S / C- 2021/28	ASHGHAL	-	LICUAS TRADING & CONTRACTING W.L.L.



95	2021	DESIGN AND BUILD CONTRACT FOR WAKRAH AND WUKAIR TSE LINE	C853/3 / PA/2019/C/056/G / C-2020/128	ASHGHAL	PARSONS	UCC-INFRAROAD JV
96	2021	DESIGN AND BUILD FOR CONSTRUCTION OF THREE NUMBER TEMPORARY BUS DEPOTS AT VARIOUS SITES	BP/2019/C/052/G / C- 2020/100	ASHGHAL	CEG INTERNATIONAL	BOJAMHOOR TRADING & CONTRACTING
97	2021	ROADS AND INFRASTRUCTURE IN MEBAIREEK (ZONE 81)	DW020-P01 AND DW020-P02 / C-2020/124	ASHGHAL	ITAL CONSULT	BOOM CONSTRUCTION WLL
98	2021	DESIGN AND BUILD CONTRACT FOR WAKRAH AND WUKAIR DRAINAGE TUNNEL-C853/2	PA/2019/C/055/G / C- 2020/127	ASHGHAL	PARSONS	HBK-PORR JV
99	2021	C830 CONSTRUCTION OF FOUL SEWERS FOR INNER DOHA PACKAGE 3B-C816/3B	PA/2020/C/069/G / C- 2020/123	ASHGHAL	CDM SMITH	LOTUS TRADING & CONTRACTING COMPANY
100	2021	PS 15 FOUL SEWER NETWORK REHABILITATION PHASE 1 (SR 095)-DOHA AREA	SR_095 / AA/DOM/13- 14/M/1591-4.07/G / C- 2019/109	ASHGHAL	DORSCH QATAR	MACE QATAR
101	2021	ROADS AND INFRASTRUCTURE IN UMM SLAL MOHAMMED-PAHSE 02- PACKAGE 01	DN005-P01 / PA/2019/C/066/G	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	HBK CONTRACTING COMPANY
102	2021	ROADS & INFRASTRUCTURE IN SOUTH OF AL MESHAF PACKAGE- 09	IA/2019/C/026G / QS049-P09	ASHGHAL	DORSCH QATAR	DCRW-QBEC-JV
103	2021	ROADS & INFRASTRUCTURE IN SOUTH OF AL MESHAF PACKAGE- 08 (QS049-P08)	IA/2019/C/025/G / C- 2020/129	ASHGHAL	ASHGHAL (ROADS PROJECT DEPARTMENT)	AL TAWFEEQ & PARTNERS CONTRACTING WLL
104	2021	REFURBISHMENT   & UPGRADING WORKS FOR VARIOUS PUMPING STATIONS	CP 770 / IA/13/14/C/12/G / C-2016/103	ASHGHAL	ENGICON QATAR	PETROSERV LIMITED
105	2021	OPERATION MAINTENANCE AND REHABILITATION PROGRAMME UNPLANNED WORKS PS25 & 25-6 GRAVITY MAINS REHABILITATION	SR 104 / AA/DOM/13- 14/M/1591-4.07/G / C- 2019/082	ASHGHAL	PARSONS	PETROSERV LIMITED



106	2021	SEWER REPAIR, REPLACEMENT AND REHABILITAION FRAME WORK	SR 105 / AA/DOM/13- 15/M/1591-4.07/G / C- 2019/084	ASHGHAL	M/S ASCO QATAR	PETROSERV LIMITED
107	2021	FS NETWORK REHABILITAION FOR DOHA SOUTH - PS06 & PS10 GRAVITY MAINS	SR 101 / CE-5125 / AA/DOM/13-14/M/1591- 4.07/G / C-2019/085	ASHGHAL	DORSCH QATAR	PETROSERV LIMITED
108	2020	CENTRAL DOHA AND CORNICHE BEAUTIFICATION PACKAGE 03	PWA/GTC/087/2019/L / PA/2019/C/107/G	ASHGHAL	ITAL CONSULT	BOOM CONSTRUCTION COMPANY
109	2020	CONSTRUCTION OF LINK ROADSADJACENT TO AL KHOR EXPRESSWAY	PA/2019/C/097/G / C- 2020/88	ASHGHAL	CDM SMITH	ATTI-KAT CONSTRUCTION COMPANY W.L.L.
110	2020	RIW IN NORTHERN AREAS PHASE - 4A	IA/2019/C/019/I / C-2020/43	ASHGHAL	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	KHALED PROJECTS CO
111	2020	DESIGN AND BUILD FOR AL ASMAKH AREA 01	BP/2020/C/043/G	ASHGHAL	DORSCH QATAR	AL ALI ENGINEERING CO.
112	2020	CONSTRUCTION OF FOUL SEWER FOR VARIOUS CATCHMENT WITHIN DOHA WEST (PACKAGE 2)(DS 039 & DS 040)	C826/2 / IA/2018/C/035/G / C-2020/79	ASHGHAL	ASCO QATAR CONSULTING ENGINEERS	MACE QATAR
113	2020	CONSTRUCTION OF CENTRAL DOHA & CORNICHE BEAUTTIFICATION ZONE 17 WEST EARLY WORKS	PJ020 / PA/2019/C/079/I / C- 2020/7	ASHGHAL	ITAL CONSULT	UCC-INFRAROAD JV
114	2020	PWA-GTC-82-2019 RIW IN WESTERN AREA	PA/2019/1/104/G / C- 2020/92	ASHGHAL	ASHGHAL	NEW HORIZON CONTRACTING & MAINTENANCE CO. W.L.L.
115	2020	QATAR SCHOOLS PP DEVELOPMENT PROGRAM- PACKAGE 01	BA/2019/C/001/G	ASHGHAL	ARAB ENGINEERING BUREAU	AL JABER TRADING & CONTRACTING CO. W.L.L.



116	2020	DESIGN AND CONSTRUCTION OF PEDESTRIAN CROSSINGS-PHASE 3	BA/2019/C/043/G / C- 2020/104	ASHGHAL	CDM SMITH	REDCO INTERNATIONAL
117	2020	FOUL SEWER REFURBISHMENT OF CATCHMENT PS14, PS1411, PS23 AND ASSOCIATED AREA (AREA D)	SR-072 / C-2018/121	ASHGHAL	-	MACE QATAR
118	2020	CENTRAL DOHA AND CÒRNICHÉ BEAUTIFICATION PACKAGE 04	PA/2019/C/111/G	ASHGHAL	PARSONS INTERNATIONAL	UCC INFRAROAD JV
119	2020	DESIGN AND BUILD FOR THE MODIFICATION AND ADDITIONAL WORKS TO EXISTING (27) SCHOOLE-PACKAGE THREE (11) NOS. SCHOOLS	BA/2019/C/004/I / C- 2019/111	ASHGHAL	ECG- ENGINEERING CONSULTANTS GROUP	BOJAMHOOR TRADING & CONTRACTING COMPANY
120	2020	FLOOD PREVENTION SCHEME FOR GROUND AND SURFACE WATER (2019/1)	SR_099 / AA/DOM/13- 14/M/1591-4.07/G / C- 2019/122	ASHGHAL	PARSONS INTERNATIONAL LIMITED	VELOSI CERTIFICATION LLC
121	2020	ROADS AND INFRASTRUCTURE IN AL WAJBA EAST PACKAGE 01	IA/2019/C/017/G	ASHGHAL	CDM SMITH	GALFAR AL MISNAD ENGG & CONTG WLL
122	2020	ROADS AND INFRASTRUCTURE IN WAKRA MMUP (PH 2, PKG 14) PACKAGE 03	IA/13/14/C/056/ST / C- 2015/55	ASHGHAL	PARSONS INTERNATIONAL LIMITED	NICC-AZVI-AL GHANIM JV
123	2020	ROADS NAD INFRASTRUCTURE IN AL EBB AND LEBAIB (DN099-P02)	IA/2019/C/053/G	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	QATAR BUILDING COMPANY
124	2020	DESIGN AND BUILD CONTRACT FOR FIFA READINESS PROJECT 3B SURFACE AND GROUND WATER AT AL THUMAMA	PA/2019/C/049/FPS / C- 851/35 / C-2019/120	ASHGHAL	KHATIB & ALAMI	URBACON- INFRAROAD JV
125	2020	CONSTRUCTION OF SITE 22 - INDUSTRIAL AREA BUS DEPOT	BA/2019/C/030/G / C- 2020/84	ASHGHAL	AECOM	REDCO INTERNATIONAL
126	2020	CONSTRUCTION OF SITE 23- AL RAYYAN DEPOT	BA/2019/C/031/G / C- 2020/81	ASHGHAL	AECOM	REDCO INTERNATIONAL



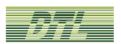
127	2020	CONSTRUCTION OF AL WAKRABUS DEPOT SITE 21	BA/2019/C/029/G / C- 2020/85	ASHGHAL	AECOM	AL TAWFEEQ & PARTNERS CONTRACTING
128	2020	ESTABLISH A PILOT PROJECT FOR WEST BAY NORTH BEACH DEVELOPMENT STAGE 1 PART 1 (BEACH 2)	-	ASHGHAL	UNII ENGINEERING CONSULTANCY L.L.C	UNITED INTERNATIONAL TRAD. & CONT. WLL
129	2020	CONSTRUCTION OF NEW INTERCHANGE IC3 AT RAS BUFONTAS FREE ZONE (P042)	P042 / IA/2019/C/016/G / C- 2020/56	ASHGHAL	WSP	REDCO-PORR IC3 JV
130	2020	ROAD & INFRASTRUCTURE IN AL MEARAD AND SOUTHWEST OF MUAITHER (PACKAGE 2)	DW044-P02 / IA/2018/C/013/G / C- 2019/132	ASHGHAL	CDM SMITH	MARBU CONTRACTING CO. W.L.L.
131	2020	D-RING ROAD IMPROVEMENT WORKS	PA/2019/C/109/G	ASHGHAL	WSP	UCC-INFRAROAD - LIMAK JV
132	2020	CONSTRUCTION OF SITE 24- LUSAIL BUS DEPOT	BA/2019/C/032/G	ASHGHAL	AECOM	REDCO INTERNATIONAL
133	2020	ROADS AND INFRASTRUCTURE IN SOUTH OF AL MESHAF-PACKAGE 03	QS049-P03 / IA/2018/C/038/G / C-2019/50	ASHGHAL	DORSCH	UCC-INFRAROAD JV
134	2020	DESIGN & CONSTRUCTION OF THREE PEDESTRIAN BRIDGES- PAHSE 2	PA/2019/C/059/I / C-2020/45	ASHGHAL	CDM SMITH	PORR QATAR CONSTRUCTION W.L.L.
135	2020	ROADS AND INFRASTRUCTURE IN AL MEARAD AND SOUTHWEST OF MUAITHER-PACKAGE 6	IA/2018/C/017/G / C-2020/65	ASHGHAL	CDM SMITH	UCC INFRAROAD JV
136	2020	ROADS AND INRFRASTRUCTURE IN AL MEARAD AND SOUTHWEST OF MUAITHER-PACKAGE 3	DW044-P03 / IA/2018/C/014/G / C-2020/23	ASHGHAL	CDM SMITH	PETROSERV LIMITED / ROAD BRIDGE (JV)
137	2020	ROADS AND INFRASTRUCTURE IN AL KHARAITIYAT AND IZGHAWA- PAHSE1-PACKAGE 02	IA/2019/C/051/G / C-2020/49	ASHGHAL	CEG INTERNATIONAL	UCC INFRAROAD JV



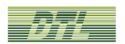
138	2020	CONSTRUCTION OF BUS PARKING AREA FOR AL RAYYAN STADIUM	IA/2018/C/049/I / C- 2019/112	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	MARBU CONTRACTING COMPANY
139	2020	CONSTRUCTION OF FLOOD PREVENTION SCHEME (FPS-PHASE 3) FOR DOHA SOUTH AREA	PA/2019/C/095/G / C- 2020/64	ASHGHAL	PARSONS INTERNATIONAL LIMITED	HBK CONTRACTING COMPANY
140	2020	PO41-DESIGN AND CONSTRUCTION OF INDUSTRIAL AND MUBAIREEK INTERCHANGES	P-041 / C-2020/044	ASHGHAL	CDM SMITH	MIDMAC-PORR JV
141	2020	RIW IN VARIOUS AREAS OF GREATER DOHA PHASE-6B	IA/2019/C/020/I / C-2020/40	ASHGHAL	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	JAK CONSTRUCTION
142	2020	ROADS AND INFRASTRUCTURE IN SOUTH OF AL MESHAF - PACKAGE 07	QS049-P07 / IA/2019/C/024/G / C-2020/19	ASHGHAL	DORSCH QATAR	PETROSERV LTD. / ROADBRIDGE JV
143	2020	ROADS AND INFRASTRUCTURE IN JERYAN NEJAIMA (CLOCK 1700) AND JELAIAH (ZONE 68)	DN 101 / IA/2018/C/065/G / C-2020/03	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	PETROSERV LIMITED / ROADBRIDGE (JV)
144	2020	RIW OUT OF GREATER DOHA TO VILLAGES - PHASE 6	IA/2019/C/058/G / C- 2020/024	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	AL MOHANNADI FOR ROADS TRADING & CONTRACTING W.L.L.
145	2020	ROAD IMPROVEMENT WORKS IN NORTHERN AREAS PHASE - 4	IA/2019/C/044/I / C-2020/05	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	AL MOHANNADI FOR ROADS TRADING & CONTRACTING W.L.L.
146	2020	ROADS AND INFRASTRUCTURE IN NORTH OF AIN KHALID (ZONE 56) PACKAGE 1	DS 132-P01 / IA/2018/C/040/I / C-2020/12	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	PETROSERV LIMITED
147	2020	ROAD IMPROVEMENT WORKS IN SOUTH OF GREATER DOHA (ZONE 90-95) PHASE - 5	IA/2017/C/054/I / C-2018/8	ASHGHAL	GULF ENGINEERING	CONTRACO W.L.L.



					AND INDUSTRIAL CONSULTANCY	
148	2020	ROADS & INFRASTRUCTURE IN AL EBB & LEABAIB - PACKAGE 01	IA/2017/C/137/G / C- 2019/004	ASHGHAL	ARCADIS CONSULTING MIDDLE EAST	QATAR TRADING & CONTRACTING GROUP
149	2020	ROAD & INFRASTRUCTURE IN DUHAIL SOUTH AND UMM LEKHBA (ZONE 30&31) - PACKAGE 01	DN 073-P01 / IA/2018/C/0701/G / C- 2020/17	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	PETROSERV LIMITED / ROADBRIDGE (JV)
150	2020	RIW IN SOUTH GREATER DOHA ZONE 90 TO 95 PHASE 6 (QS049)	IA/2018/C/034/I	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	QATAR BUILDING COMPANY
151	2020	AL KHOR EXPRESSWAY	P-060 / C-2017/113	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	TEKFEN CONSTRUCTION
152	2020	DESIGN AND BUILD CONTRACT FOR FIFA READINESS PROJECT 6 SURFACE & GROUND WATER NETWORK AT AL MADINAT KHALIFA AND IMMIGRATION UNDERPASS SCHEME (C851/6)	C851/6 / IA/2019/C/033/FPS / C-2019/141	ASHGHAL	STANTEC	PETROSERV LIMITED
153	2020	DESIGN AND BUILD CONTRACT FOR FIFA READINESS PROJECT 7 SURFACE AND GROUND WATER NETWORK AT ONAIZA AND AL- MARKHIYA	C-851/7 / PA/2019/C/034/FPS / C- 2019/131	ASHGHAL	PARSONS INTERNATIONAL LTD	QATAR BUILDING COMPANY
154	2020	DESIGN AND BUILD FOR FIFA READINESS PROJECT 4 (FRP-4) FOR SURFACE AND GROUND WATER NETWORK AT AL SADD AND AL NASR SCHEME	C-851 / PA/2019/C/031/FPS / C-2019/126	ASHGHAL	DORSCH QATAR	QATAR TRADING & CONTRACTING GROUP (QTCG)
155	2020	CONSTRUCTION OF PEDESTRIAN CROSSING (PHASE 1)	IA/2018/C/074/I / C-2019/96	ASHGHAL	-	PORR QATAR CONSTRUCTION W.L.L.



156	2020	DESIGN, BUILD AND MAINTAIN OF MUSAIMEER PUMPING STATION AND OUTFALL (MPSO PROJECT)	IA/1415/C/015/G / C- 2017/109	ASHGHAL	MOTT MACDONALD LIMITED	HBK / PORR
157	2020	CONSTRUCTION OF BUS AND CARS PARKING AREA FOR RAIL - PACKAGE 2	IA/208/C/047/I / C-2019/43	ASHGHAL	AECOM	MARBU CONTRACTING COMPANY
158	2020	CONSTRUCTION OF BUS AND CARS PARKING AREA FOR RAIL - PACKAGE 3	PA/2019/C/071/G / C- 2019/134	ASHGHAL	AECOM	MARBU CONTRACTING COMPANY
159	2020	ROAD IMPROVEMENT WORKS IN VARIOUS AREAS OF GREATER DOHA PHASE - 5	IA/2017/C/057/G / C-2018/73	ASHGHAL	ITAL CONSULT	AL SARH TRADING AND CO. WLL
160	2020	ROADS & INFRASTRUCTURE IN AL KHARAITIYAT AND IZGHAWA PHASE 1 - PACKAGE 01	IA/2018/C/069/G / C- 2019/125	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	AL SARH TRADING AND CO. WLL
161	2020	DEVELOPMENT ACCESS ROADS TO INTEGRATED WORKER ACCOMODATION COMMUNITY AT AL KHOR	IA/2018/C/076/G	ASHGHAL	CEG INTERNATIONAL	MARBU CONTRACTING CO. W.L.L.
162	2020	ACCESS ROADS FOR UMM GHUWAILINA INTEGRATED WORKERS ACCOMODATION COMMUNITY	1064 / IA/2018/C/077/I	ASHGHAL	-	AL SARH HOLDING
163	2020	DW083-MUAITHER AL MEARAD AND RAWDAT ABAL HEERAN TSE	IA/2017/C/024/I / C-2018/83	ASHGHAL	ITAL CONSULT	PETROSERV- LIMITED
164	2020	CONSTRUCTION OF DIVERSION OF SEWAGE FLOWS FROM DOHA SOUTH AREA TO DOHA WEST PS 44 TO PS 32A	C-819 / C-2019/70	ASHGHAL	DORSCH QATAR	QATAR BUILDING COMPANY
165	2020	CONSTRUCTION OF INDUSTRIAL AREA PACKAGE 07 AND INTERCHANGES (QS001-P07) C- 311	IA/2018/C/083/G / C- 2019/129	ASHGHAL	CDM SMITH	QATAR BUILDING COMPANY



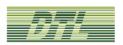
166	2020	RIW IN RAYYAN AREAS PAHSE-5A	IA/2018/C/078/I - C-2019/58	ASHGHAL	ASHGHAL	BOOM CONSTRUCTION COMPANY W.L.L.
167	2020	FIFA REDINESS PROJECTS OF SURFACE & GROUNDWATER NETWORK AT AL THUMAMA C851/3A	PA/2019/C/030/FPS / C- 851/3A	ASHGHAL	KHATIB & ALAMI	HBK CONTRACTING COMPANY
168	2020	RIW IN VARIOUS AREAS OF GREATER DOHA PHASE-6	IA/2018/C/082/I / C-2018/88	ASHGHAL	GULF ENGINEERING & CONSULTANCY	MARBU CONTRACTING CO. W.L.L
169	2020	RIW IN VARIOUS AREAS OF GREATER DOHA PHASE 6A	IA/2018/C/019/I / C- 2018/108	ASHGHAL	GULF ENGINEERING & CONSULTANCY (GEIC)	RAMCO TRADING & CONTRACTING CO. W.L.L.
170	2020	DESIGN AND BUILD CONTRACT FOR TSE TANKER FILLING STATIONS AT DOHA WEST & LUSAIL STW SITES	IA/2017/C/027/I / C- 2018/129	ASHGHAL	GULF ENGINEERING & CONSULTANCY	METITO OVERSEAS QATAR W.L.L.
171	2020	DW080-ROADS AND INFRASTRUCTURE IN AL SAILIYA / AL ATIYA HOUSING AND AL ATIYA HOUSING / ARMY CAMP ROAD	DW080 / IA/2017/C/021/G / C-2018/99	ASHGHAL	ITAL CONSULT	QATAR BUILDING COMPANY
172	2019	DESIGN & BUILD FOR THE REHABILITATION OF DOHA SOUTH SEWAGE TREATMENT WORKS	(MJ-176) / IA/2017/C/064/G / C-2019/1	ASHGHAL	PARSONS INTERNATIONAL	VA TECH WABAG LTD. / MEDGULF CONSTRUCTION COMPANY
173	2019	ROADS AND INFRASTRUCTURE FOR ASHGHAL IN WEST MUAITHER (AL MANASEER) - PACKAGE 02	IA/2017/C/142/G	ASHGHAL	ITAL CONSULT	UCC-INFRAROAD JV
174	2019	DESIGN AND BUILD (D&B) CONTRACT FOR REHABILITAION OF DOHA SOUTH SEWAGE TREATMENT WORKS (DSSTW)	CP 837 / IA/2017/C/064/G / C-2019/1	ASHGHAL	PARSONS INTERNATIONAL LIMITED	MEDGULF CONSTRUCTION COMPANY / M/S. EMCON TRADING &



						CONTRACTING W.L.L
175	2019	CONSTRUCTION OF DIVERSION OF SEWAGE FLOWS FROM DOHA INDUSTRIAL AREA TO DOHA WEST STW-PS IA2 TO PS 32A-C835	IA/2019/C/004/G / C-2019/89	ASHGHAL	KHATIB & ALAMI CONSOLIDATED ENGINEERING COMPANY	QATAR BUILDING COMPANY
176	2019	QS049 PO4 ROAD AND INFRASTRACTURE IN SOUTH AL MESHAF PACKAGE -04	IA/2018/C/039/G / C-2019-26	ASHGHAL	DORSCH QATAR	AL SARH TRADING AND CO. WLL
177	2019	INTERIM ROAD IMPROVEMENT DOHA SOUTH PHASE-01	IA/2018/C/024/G / C-2019/48	ASHGHAL	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	AL GHANIM INTERNATIONAL QATAR W.L.L.
178	2019	RIW IN JUNCTIONS AND ROUNDABOUT IN VARIOUS AREAS OF GREATER DOHA PACKAGE-8	IA/2018/C/080/G / C-2019/62	ASHGHAL	GULF ENGINEERING AND INDUSTRIAL CONSULTANCY	BOOM CONSTRUCTION COMPANY
179	2019	ROADS AND INFRASTRUCTURE IN SOUTH OF AL MESHAF PACKAGE 01	QS049 P01 / IA/2018/C/037/G / C-2019/51	ASHGHAL	DORSCH QATAR	SACYR-MEDGULF JV
180	2019	MISCELLANEOUS HOUSE CONNECTION HOUSE CONNECTION PROJECTS-SWER EXTENSION & HOUSE CONNECTIONS AT AL KHOR (FW- 03/2018)	SR-87 / AA/DOM/13- 14/M/1591-4.07/G / C- 2019/36	ASHGHAL	-	MECHANICAL & CIVIL ENGINEERING CONTRACTORS CO. LTD. (MACE-QATAR)
181	2019	FLOOD PREVENTION SCHEME- NUAIJA AND OLD AIRPORT AREAS- O&M PACKAGE 3	SR-071 / AA/DOM/13- 14/M/1591-4.07/G / C- 2018/118	ASHGHAL	-	MECHANICAL & CIVIL ENGINEERING CONTRACTORS CO. LTD. (MACE-QATAR)
182	2019	RECLAMATION AND REHABILITATION OF AL KARAANA LAGOON (RRKL)-PHASE 1	IA/14/15/C/136/G / C-2017/114	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	SUEZ INTERNATIONAL SAS



183	2019	ROADS AND INFRASTRACTURE FOR GOVERNMENT RESIDENTIAL DIVISION PROJECT IN SOUTH OF WUKAIR-PACKAGE 01	IA/2017/C/060/G / C-2018/52	ASHGHAL	AECOM	UCC-INFRAROAD JV
184	2019	RIW OUT OF GREATER DOHA ACCESS ROAD TO VILLAGES PHASE-5	IA/2018/C/025/I / C- 2018/130	ASHGHAL	GULF ENGINEERING & INDUSTRIAL CONSULTANCY	AL MOHANNADI FOR LEVELLING & PAVING ROADS
185	2019	DN004-ROADS & INFRASTRACTURE IN AL KHARAITIYAT & IZGHAWA PH-1, PKG 03	IA/14/15/C/150/ST / C- 2019/19	ASHGHAL	PARSONS INTERNATIONAL LIMITED	ALGHANIM-NICC JV
186	2019	P017-C1-IN-UPGRADE OF AL WAKRAH MAIN ROAD	IA/2017/C/040/G / C-2018/57	ASHGHAL	HALCROW (CONSULTING ENGINEERS & ARCHITECTS LTD.	BOOM CONSTRUCTION COMPANY
187	2019	CONSTRUCTION OF EAST INDUSTRIAL ROAD BETWEEN AL MUNTAZAH STREET AND WEST CORRIDOR (P017 C2)	IA/2017/C/006/G / C-2017/90	ASHGHAL	PARSONS INTERNATIONAL LIMITED	TEKFEN CONSTRUCTION & INSTALLATION CO.
188	2019	P007 C7 P1-CONSTRUCTION OF DUHAIL INTERSECTION AND AL GHARRAFA STREET	IA/2018/C/033/G / C-2019/34	ASHGHAL	PARSONS INTERNATIONAL LIMITED	URBACON TRADING & CONTRACTING - INFRAROAD TRASDING & CONTRACTING - YUKSEL INSAAT (JV)
189	2019	ROADS AND INFRASTRACTURE IN WEST MUAITHER (AL MANASEER)- PACKAGE 03	DW002-P03 / IA/2018/C/029/G	ASHGHAL	ITAL CONSULT	BOOM CONSTRUCTION COMPANY
190	2019	CONSTRUCTION OF FLOW DIVERSION IN AL TARFA, LEGTAIFIYA, AND JELAIAH	C-830 / IA/2017/C/050/I / C-2018/115	ASHGHAL	CDM SMITH	AL WAHA CONTRACTING & TRADING CO. W.L.L.
191	2019	REFURBISHMENT AND UPGRADING WORKS FOR VARIOUS SEWAGE PUMPING STATIONS	CP-771 / IA/2017/C/017/I / C-2018/074	ASHGHAL	KEO INTERNATIONAL CONSULTANTS	GEC CONTRACTING SERVICES AND TRADING



192	2019	CONSTRUCTION OF AL KHUFOOS STREET	P029C1 / IA/2017/C/003/G / C-2017/102	ASHGHAL	CDM SMITH	BOOM CONSTRUCTION COMPANY
193	2018	ACCESS ROADS TO AL WAKRAH LOGISTIC CITY - P08	IA/2016/C/020/G / C-2017/71	ASHGHAL (LOCAL ROADS AND DRAINAGE)	AECOM MIDDLE EAST	AL DARWISH ENGINEERING W.L.L.
194	2018	CONSTRUCTION OF FOUL SEWER FOR VARIOUS CATCHMENT WITHIN DOHA WEST (PACKAGE 2)	C-821/2 / IA/2017/C/038/I / C-2018/102	ASHGHAL	CEG INTERNATIONAL	AL WAHA CONTRACTING & TRADING CO.
195	2018	ACCESS ROADS TO JERY AL SAMUR LOGISTIC CITY AND INTEGRATED WORKER ACCOMODATION IN UM SALAL	IA/2016/C/019/I / C-2017/78	ASHGHAL	ITAL CONSULT	MARBU CONTRACTING COMPANY W.L.L
196	2018	CONSTRUCTION OF AIN KHALED HEALTH CENTER-PACKAGE 7	BA/2017/C/007/G / C- 2018/105	ASHGHAL	ENGINEERING CONSULTANTS GROUP SA	AL TAWFEEQ & PARTNERS CONTRACTING W.L.L
197	2018	CONSTRUCTION OF HEALTH CENTER AT AL KHOR-PACKAGE 8	BA/2017/C/008/G / C- 2018/104	ASHGHAL	ENGINEERING CONSULTANTS GROUP SA	AL TAWFEEQ & PARTNERS CONTRACTING W.L.L
198	2018	CONSTRUCTION OF HEALTH CENTER AT AL MESHAF (PACKAGE 6)	BA/2017/C/009/G	ASHGHAL	ENGINEERING CONSULTANTS GROUP SA (ECG)	IMPERIAL TRADING & CONTRACTING COMPANY (ITCC)
199	2018	CONSTRUCTION OF FOUL SEWER NETWORK FOR INNER DOHA- PACKAGE 2 C816/2	IA/2017/C/132/G / C- 2018/100	ASHGHAL	CEG INTERNATIONAL	GEC CONTRACTING SERVICES AND TRADING
200	2018	ROADS IMPROVEMENT WORKS IN NORTHERN AREAS PHASE 3	IA/2017/C/058/G / C-2018/82	ASHGHAL	ITAL CONSULT	AL MOHANNADI FOR LEVELLING & PAVING ROADS
201	2018	UMM AL DOME IMPROVEMENT	IA/2018/C/031/G / C- 2018/114	ASHGHAL (LOCAL ROADS AND DRAINAGE)	ITAL CONSULT	PETROSERV LIMITED / STRUKTON CONSTRUCTION & TRADING (JV)



202	2018	DW-082 AL SAILIYA AND AL HAMM STREET SURFACE WATER	IA/2017/C/023/G / C-2018/69	ASHGHAL (LOCAL ROADS AND DRAINAGE)	ITAL CONSULT	AL WAHA CONTRACTING & TRADING CO.
203	2018	DW-080 ROADS AND INFRASTRUCTURE IN AL SAILIYA / AL ATIYA HOUSING AND ARMY CAMP ROAD	IA/2017/C/021/G / C-2018/99	ASHGHAL (LOCAL ROADS AND DRAINAGE)	ITAL CONSULT	QATAR BUILDING COMPANY
204	2018	IMPROVEMENT OF INTERIM A- RING ROAD SCHEME	IA/12- 13/DS/002/ST/RDD/IIS/AR / C-2018/053	ASHGHAL	ITAL CONSULT	BOOM CONSTRUCTION COMPANY
205	2018	CONSTRUCTION OF FOUL SEWERS FOR INNER DOHA -PACKAGE 01	CP 816 / IA/2016/C/50/G / C- 2017/116	ASHGHAL	DORSCH QATAR	LOTUS TRADING & CONTRACTING COMPANY
206	2018	ROAD IMPROVEMENT OF IMMIGRATION INTERCHANGE ROUNDABOUT & 22ND FEBRUARY STREET	IA/2017/C/047/I / C-2018/77	ASHGHAL	PARSONS INTERNATIONAL LIMITED	URBACON TRADING & CONTRACTING - INFRAROAD TRADING & CONTRACTING CO. JV
207	2018	DESIGN AND BUILD OF RECYCLED WATER SUPPLY TO FARMS NEAR DOHA NORTH STW - CP 817	CP 817 / IA/14-15/C/113/G / C-2017/68	ASHGHAL	EGEC QATAR	TEMALCO CONTRACTING & TRADING CO. WLL
208	2018	MISCELLANEOUS HOUSE CONNECTION WORK (FW- 11/2017)	SR-067 / C-2018/75	ASHGHAL (DRAINAGE NETWORKS OPERATION & MAINTENANCE DEPARTMENT (DNO&M))	-	TEMALCO CONTRACTING & TRADING CO. WLL
209	2018	MISCELLANEOUS HOUSE CONNECTION WORK (FW- 12/2017)	SR-069 / AA/DOM/13- 14/1591-4.07/G / C-2018/76	ASHGHAL (DRAINAGE NETWORKS OPERATION & MAINTENANCE DEPARTMENT (DNO&M))	-	TEMALCO CONTRACTING & TRADING CO. WLL



210	2018	ROADS AND INFRASTRUCTURE IN DOHA INDUSTRIAL AREA - PACKAGE 04	QS001-P04 / C-2017/119	ASHGHAL (LOCAL ROADS AND DRAINAGE)	DAR AL HANDASAH CONSULTANTS	BOOM CONSTRUCTION CO. WLL & LOTUS TRADING & CONTRACTING CO. JV
211	2018	DW-079 - ROADS AND INFRASTRUCTURE FOR ROADS 1400 AND 300 FROM DW015 PACKAGE 03	IA/2017/C/020/G / C-2018/68	ASHGHAL (ROADS PROJECT DEPARTMENT)	DAR AL HANDASAH CONSULTANTS	NEW HORIZON CONTRACTING & MAINTENANCE / BUZWAIR ENGINEERING-JV
212	2018	ACCESS ROADS TO BIRKAT AL AWAMER INTEGRATED WORKER ACCOMMODATION COMMUNITY QS028-P09	IA/2016/C/043/G / C-2017/83	ASHGHAL (LOCAL ROADS AND DRAINAGE)	AECOM MIDDLE EAST LTD	MARBU CONTRACTING CO.WLL
213	2018	CONSTRUCTION OF AL KHOR AREA SEWERAGE FOR NORTHERN REGION, (HOUSE CONNECTION STAGE 2 WORKS FOR NORTHERN & SOUTHERN REGIONS OF AL KHOR)	CP 707/2 / C-2010/95 / DA/09-10/C/18/G	ASHGHAL	PARSONS INTERNATIONAL LIMITED	NATIONAL INDUSTRIAL CONTRACTING CO.
214	2018	FLOOD PREVENTION SCHEME - PHASE 2 - PACKAGE 1	SR-HS-017 / AA/DOM/13- 14/M/1591-4.07/G / C- 2018/72	ASHGHAL	LOUIS BERGER INTERNATIONAL	MECHANICAL & CIVIL ENGINEERING CONTRACTORS CO. LTD. (MACE-QATAR)
215	2018	ROAD IMPROVEMENT WORKS IN RAYYAN AREA (ZONE 51-55,80 & 81) PHASE-5	IA/2017/C/053/G / C-2018/9 / 603	ASHGHAL (ROADS PROJECT DEPARTMENT)	ASHGHAL	CONTRACO WLL
216	2018	CONSTRUCTION AND UPGRADE OF AL RAYYAN ROAD PROJECT 7: CONTRACT 2 WEST OF OLYMPIC R/A TO WEST OF NEW RAYYAN R/A	IA/12-13/C/058/ST / C- 2013/89	ASHGHAL	EGIS INTERNATIONAL	DOGUS INSAAT
217	2018	ROADS & INFRASTRUCTURE IN NORTH OF AL NASIRAIYAH DN 108-P02	IA/2017/C/028/G / C-2017/79	ASHGHAL (LOCAL ROADS AND DRAINAGE)	HYDER CONSULTING MIDDLE EAST	BOOM CONSTRUCTION CO. WLL & LOTUS



						TRADING & CONTRACTING CO. JV
218	2018	CONSTRUCTION OF LAND DRAINS AND ALLIED WORKS AT MUSSAIMEER GRAVEYARD	C 806 / C-2017/76	ASHGHAL	MWH UK LTD.	AL WAHA CONTRACTING & TRADING CO.
219	2018	CONSTRUCTION OF HEALTHCARE CENTER AT AL SHAMAL ([PACKAGE 9)	BA/14/15/C/085/G / C- 2017/103	ASHGHAL	ECG QATAR	AL JABER TRADING & CONTRACTING CO. WLL
220	2018	ROAD SAFETY IMPROVEMENT PROGRAM, STAGE 2A	PWA/GTC/059/2014- 2015/L/R1 / C-2016/048	ASHGHAL	ASHGHAL	BOOM CONSTRUCTION CO.
221	2018	CONSTRUCTION & UPGRADING OF E-RING ROAD - NORTH / SOUTH LINK (P008-C2)	P008-C2 / IA/14/15/C/075/ST / C-2017/1	ASHGHAL (ROADS PROJECT DEPARTMENT)	PARSONS INTERNATIONAL LIMITED	DAEWOO ENGINEERING & CONSTRUCTION CO., LTD.
222	2018	ROADS AND INFRASTRUCTURE IN DOHA INDUSTRIAL AREA - (QS001- P03)	QS001-P03 / C-2017/121	ASHGHAL (LOCAL ROADS AND DRAINAGE)	DAR AL HANDASAH	QATAR BUILDING COMPANY
223	2018	ACCESS ROADS TO AL WAKRAH CENTRAL MARKET AND INTEGRATED WORKERS ACCOMMODATION COMMUNITY	IA/2017/C/037/G / DS 136- P07 / C-2018/5	ASHGHAL (LOCAL ROADS AND DRAINAGE)	PARSONS INTERNATIONAL LIMITED	AL JABER & MAKHLOUF WLL



# LIST OF GEOTECHNICAL PROJECT



مختبرات الدوحة الفنية

#### MAJOR WORK EXPERIENCE IN LAST FIVE YEARS

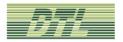
S.N o.	Project Name	Contractor/ Consultant	Client	Location	Start Date	Finish Date	Total no. of Borehol es	Depth of each borehole, m	Total dept h, m
1	66/11 kV Slope Stability Analysis	Siemens Consortium	Kahrama a	Umm Shahrain	22/12/20 16	01/02/20 17	3	3x10.0	30
2	Al Jaimilya Culture & Youth Center	EGEC Qatar for Engineering Cons	ERGA	Al Jaililya	14/03/20 17	21/3/201 7	9	11TP;9x10	90
3	Earthing Boreholes	Al Ali Projects Company WLL	-	Al Bidda Park	21/1/201 7	02/12/20 17	8	8x23	184
4	NBN Office Buildings	NICC	-	Al Maamoura	26/1/201 7	02/05/20 17	4	4x20.0	80
5	Shahaniya Villa	PAT Engineering Enterprises Co.	-	Shahaniya	31/1/201 7	02/03/20 17	2	2x10.0	20
6	Boring work inside QFM premises	Zad Holding Company SAQ	-	Doha Port	21/2/201 7	25/3/201 7	6	1x33.5;1x31;4x25	164. 5
7	B+G Office Building	PAT Engineering Enterprises Co.	-	Al Jeryan	03/10/20 17	14/3/201 7	3	1x15;2x10	35
8	2B+G+M+5 Hotel Building	ALEC	-	Doha Festival City	25/3/201 7	13/5/201 7	23	4x36;19x25	619
9	66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Al Waab	30/4/201 7	05/07/20 17	3	3x10.0;2TP	30
10	66/11 kV (U) SS, Ph 13	Siemens Consortium	Kahrama a	Museum Road	04/09/20 17	16/4/201 7	3	2x10;1x15;2TP	35
11	132/66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Maizer Central	17/4/201 7	27/4/201 7	3	3x10.0;2TP	30
12	Manateq Project	International Trading Company	-	Al Wakrah	04/02/20 17	05/03/20 17	36	14x15;19x10; 3x7	421
13	132/11 kV SS Ph 13	Siemens Consortium	Kahrama a	Umm Gern	04/04/20 17	04/09/20 17	3	2x10;1x15;3TP	35
14	132/66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Umm Ebairiya	04/12/20 17	17/4/201 7	4	4x10;4TP	40
15	220/66/11 Doha Super SS	Siemens Consortium	Kahrama a	Al Muntazah	16/4/201 7	29/4/201 7	3	3x10;2TP	30



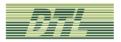
16	400/132/11 kV Al Suwaidi SS	Siemens Consortium	Kahrama a	Fereej Al Amir	24/4/201 7	30/4/201 7	4	4x10; 3TP	40
17	Horse Owner Complex	Al Jaber Trading & Contg. WLL	-	Al Khor	23/4/201 7	25/4/201 7	2	2x10.0	20
18	Villa Compound (B+G+1)	Golden Bay Contracting	-	Muraikh	25/4/201 7	20/5/201 7	6	3x15;3x10;3TP	75
19	66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Al Waab Super	05/01/20 17	05/11/20 17	3	3x10.0;3TP	30
20	66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Al Shahaniya	05/01/20 17	05/11/20 17	3	5x10.0;1x37.0;2TP	87
21	66/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Al Waab 2	05/06/20 17	13/5/201 7	3	3x10.0;2TP	30
22	Earthing at DFC	ALEC	-	Doha Festival City	13/5/201 7	14/5/201 7	1	1x10.0	10
23	Earthing boreholes	Nasser S Al Hajri Co Ltd	-	Duhailiyat	20/5/201 7	25/5/201 7	12	12x40.0	480
24	Earthing boreholes	Nasser S Al Hajri Co Ltd	-	Duhailiyat	29/5/201 7	24/10/20 17	125	22x37;1x6;92x4;1x40	1228
25	33/11 kV (U) SS Ph 13	Siemens Consortium	Kahrama a	Abu Samra (U)	15/5/201 7	24/5/201 7	3	3x10.0;1TP	30
26	B+G+1 Villa	Abdul Aziz Al Kabi	-	Umm Salal Ali	21/5/201 7	24/5/201 7	2	2x15.0	30
27	2B+G+4 Residential Building	Abdul Rahman Abdul Jaleel Ghany	-	D27 Lusail	23/7/201 7	08/02/20 17	3	3x25.0	75
28	Earthing Borehole	QBC-DTL	-	Umm Saieed	07/05/20 17	07/05/20 17	1	1x5.0	5
29	Earthing Boreholes, Manateq	Al Jaber and Partners WLL	-	Umm Al Houl	07/09/20 17	08/09/20 17	45	45x7.0	315
30	Temp Porta Cabin	GETC	-	Salwa Road	18/7/201 7	21/7/201 7	2	2x6.5; 1TP	13
31	Radar Tower	PAT Engineering Enterprises Co.	-	Kharrarah L-7	16/10/20 17	22/10/20 17	3	3x6.0	18
32	Jerry Al Samur Northern Phase 2	Qatar Building Company	-	Logistic Park Umm Slal	26/7/201 7	08/10/20 17	5	2x15;3x10	60
33	Diagraphy Drilling (Geophysical)	Qatar Building Company	-	Logistic Park Umm Slal	08/06/20 17	08/10/20 17	5	5x15	75
34	Sokaway Drilling	HXE Steel	-	New Industrial Area	21/8/201 7	30/8/201 7	6	5x4.0;1x13.0	33
35	Envrtal. Permit at Jery Al Samur	Qatar Building Company	-	Logistic Park Umm Slal	23/9/201 7	30/9/201 7	4	4x6.5	26
36	Sokaway Drilling	QBC	-	Rawdat Al Hamama	18/9/201 7	-	11	10x25.0;1x17	267
37	Radar Tower	PAT Engineering Enterprises Co.	-	Naqsh Base L- 5	28/11/20 17	12/07/20 17	4	1x30.0;3x6.0	48



38	66/11 kV Abu Thailah SS Ph 13	Siemens Consortium	Kahrama a	Abu Thailah	23/10/20 17	31/10/20 17	3	3x10.0;4TP	30
39	Sokaway Drilling, MSW	QBC	-	New Industrial Area	28/10/20 17	31/10/20 17	1	1x20.0	20
40	G+M Garage & Accomodation	JAZB for Engineering Consultancy	-	Birket Al Awamer	11/11/20 17	16/11/20 17	3	3x10.0	30
41	Sokaway Drilling, MSW	QBC	-	New Industrial Area	13/11/20 17	20/11/20 17	2	2x17.0	34
42	Labor Camp	Al Balagh Trading & Contg. Co.	-	Al Mazrora Umm Slal	16/11/20 17	20/11/20 17	3	3x10.0	30
43	Private Villa	Second Office Trading & Contg. Co.	-	Al Jasasiya	26/11/20 17	12/01/20 17	2	2x10.0	20
44	MASW Seismic Survey (Geophysical)	САРЕ	-	Halul Island	11/12/20 17	23/03/20 18	5	5 lines	-
45	Earthing Boreholes	QBC	-	Energy City, Lusail	21/11/20 17	12/06/20 17	5	5x16.0	80
46	VIP G+1 Villa	Hamad Ahmed Ali Fadel Al Naemi	-	Al Kheesa	12/09/20 17	19/12/20 17	3	3x12.0	36
47	Peripheral roads of Naval Base	Al Tawfeeq & Partners	Ashghal	Al Dayeen, Samaisamah	12/12/20 17	21/12/20 17	4	4x10.0	40
48	SAK Tower in west bay	SAK Holding Group	-	West Bay, Dafna	13/3/201 8	31/3/201 8	6	6x20.0	120
49	Earthing Boreholes	Gulf Contracting Co. WLL	-	Al Dhakhira	02/01/20 18	15/2/201 8	4	4x18.0	72
50	Electric Pole Foundation	QBC	Ashghal	Al Khor	02/02/20 18	03/08/20 18	33	16x1.5;8x1.0;8x0.5;1x10	46
51	4B+G+M+S+10+P Hotel Project	Al Sharif Trading & Contg.	-	Old Salata	04/11/20 18	17/4/201 8	2	2x10.0	20
52	66/11 kV Ras Abu Aboud - 2 SS Ph 12	Siemens Consortium	Kahrama a	Ras Abu Aboud	28/2/201 8	03/11/20 18	4	4x10.0;4TP	40
53	P 76; Pin 67110008	Al Hattab Tradg & Contg & Real Estate	Private	Markhiya	14/2/201 8	20/2/201 8	2	2x12.0	24
54	Project Near Souq Waqif	TEL	-	Al Wakra	16/2/201 8	18/2/201 8	1	1x8.0	8.5
55	Geo-physical (MASW)	GETC Gulf Engineering	-	Al Waab	03/06/20 18	03/12/20 18	-	2 lines	-
56	Almana Motors Quick Service Center	Al Mana Real Estate	-	Al Khor	03/10/20 18	03/12/20 18	3	3x10.0	30
57	Beach House	Mimar Design	-	Al Huwailla	04/10/20 18	18/4/201 8	4	4x15.0	60
58	Al Waab Villa	Al Nasr Group	-	Al Waab	23/4/201 8	05/02/20 18	2	2x20.0	40



59	P86, Pin 91021500	Al Hattab Tradg, Contg & Real Estate	-	Al Wakra	24/4/201 8	28/4/201 8	2	2x8.0	16
60	Car Park & Road Works-New ITC DIA	Al Cat Contracting Co.	Ashghal	DIA, Opp. Cargo New	26/4/201 8	05/05/20 18	3	3x10.0; 2TP	30
61	QTPS Expansion Phase 13-Pck. S7	Galfar Al Misnad Engg. & Contg. WLL	-	Salata	24/5/201 8	30/5/201 8	7	4x20;3x10;4TP	110
62	New Doha College	Domopan	-	Al Wajba	30/7/201 8	08/03/20 18	3	3x10.0	30
63	SAK Tower	SAK Trading & Contracting Co.	-	Lusail	31/5/201 8	21/6/201 8	4	4x36.0	144
64	Birla Public School	BPS	Private	Al Wukair	06/11/20 18	24/6/201 8	8	3x15;5x10	95
65	Open Yard at WSSA/RLIC	Condor Building Contracting WLL	-	RasLaffan	19/6/201 8	22/6/201 8	2	2x10.0	20
66	Pipeline for Mega Reservoir	Boom Construction Company	Kahrama a	Al Thumama, Um Besher	29/7/201 8	11/08/20 18	2	2x30.0	60
67	American Hospital	ITCC	Private	Lusail	08/08/20 18	25/08/20 18	12	12x9.0	108
68	Fantacy Home Décor	JAZB for Engineering Consultancy	-	Berkat Alaawmer	08/08/20 18	14/08/20 18	2	2x10.0	20
69	Pipeline for Mega Reservoir	Boom Construction Company	Kahrama a	Umm Birkah	15/08/20 18	18/08/20 18	1	1x30.0	30
70	132/11 kV RAF-1 Sub Station	Siemens Consortium	Kahrama a	Ras Abu Fantas	01/09/20 18	03/09/20 18	1	1x10.0	10
71	New Al Farzan Market	ITCC	Ashghal	Wakra	12/09/20 18	15/09/20 18	3	3x10.0	30
72	New Al Farzan Market	ITCC	Ashghal	Umm Zubar East	15/09/20 18	18/9/201	3	3x10.0	30
73	New Al Farzan Market	ITCC	Ashghal	Bu Ghawlana	25/09/20 18	30/09/20 18	3	3x10.0	30
74	New Al Farzan Market	ITCC	Ashghal	Jery Fatma	19/09/20 18	25/09/20 18	3	3x10.0	30
75	B+G+2 Shop, Office & G+1+PH Villa	Samik Enterprises	-	Al Aziziya	16/09/20 18	20/09/20 18	2	2x15.0	30
76	Laffan Pipes Factory Building	QBC	-	Messaieed Ind. City	17/09/20 18	08/10/20 18	12	12x12.0	144
77	132/11 kV Substation	Siemens Consortium	Kahrama a	Abu Hamour	30/09/20 18	02/10/20 18	1	1TP	-
78	Al Meshaf Health Center	ITCC	Hamad Corporati on	Al Meshaf	17/10/20 18	25/10/20 18	9	9x15.0	135
79	132 kV OHL Al Shalah	NCC (National Contg. Co. Ltd.)	Kahrama a	Al Shalah South	01/12/20 18	10/12/20 18	5	5x10.0	50
80	66 kV OHL Umm Salal	NCC (National Contg. Co. Ltd.)	Kahrama a	Abu Thailah	27/11/20 18	30/11/20 18	1	1x10.0	10



81	G+M Store, G+2 Accommodation etc	Makkah Integrating Cons. Co. WLL	-	Barkat Al Awamer	01/01/20 19	03/01/20 19	2	2x10.0	20
82	Amiri Dewan Western Boundary Wall	Al Ali Engineering Company WLL	PEO	Bidda 2 , Souk Waqif	03/01/20 19	08/01/20 19	3	3x15.0	45
83	Water Table report	Al Waha Contg. & Trading	-	Doha West Packg. 2	20/11/20 18	20/11/20 18	4	4x10.0	40
84	Beach Villa & Majlis	Dimension Engineering	-	Al Ghariya	02/12/20 18	05/12/20 18	5	5x8.0	40
85	Access Road to Al Zaeem Air Academy	Al Cat Contracting Co.	Ashghal	Al Udeid Air Base	05/12/20 18	18/12/20 18	5	5x10.0	50
86	Extension of Distribution Network	Boom Construction Company	Ashghal	Umm Besher	06/01/20 19	09/01/20 19	1	1x30.0	30
87	Dismtg, Dmotn. etc of Pump Station A	Ammico Contracting Co. WLL	Kahrama a	Ras Abu Fantas	07/01/20 19	10/01/20 19	5	5x6.0	30
88	Umm Al Dome Improvement	Petroserv LtdStrukton Co. & Tdg. JV	Ashghal	Maider	08/01/20 19	26/01/20 19	6	6x16.0	96
89	Addl. covered parking & modification	Noora Ali S N Al-Fadala etc	-	Azgawa, Ghariya	15/01/20 19	18/01/20 19	2	2x15.0	30
90	B+G+2 School Building	Shantiniketan Educational Company	SEC	Al Wukair	26/01/20 19	06/02/20 19	10	10x10.0	100
91	Dismtg, Dmotn. etc of Pump Station B	Ammico Contracting Co. WLL	Kahrama a	Ras Abu Fantas	29/01/20 19	30/01/20 19	4	4x6.0	24
92	Dismtg, Dmotn. etc of Pump Station C	Ammico Contracting Co. WLL	Kahrama a	Ras Abu Fantas	30/01/20 19	31/01/20 19	4	4x6.0	24
93	Umm Al Dome Earthing	Petroserv LtdStrukton Co. & Tdg. JV	-	Maider	27/02/20 19	28/02/20 19	2	2x10.0	20
94	Geo Investigation	Medgulf Construction Co. WLL	-	IKEA	28/02/20 19	01/03/20 19	1	1x10.0	10
95	Amiri Dewan Western Boundary Wall	Al Ali Engineering Company WLL	-	Bidda 2 , Souk Wagif	02/03/20 19	05/03/20 19	3	3x15.0	45
96	RAF-A Power Plant	Barq Group	-	Ras Abu Fantas	02/03/20 19	18/03/20 19	61	61x10.0; 26TP	610
97	2B+G+4 Building	QBC	-	D 54, Fox Hill, Lusail	13/04/20 19	18/04/20 19	2	2x20.0	40
98	G+1+P Mujahid Villa & Majlis	Zaher Alhomsi	-	Laqtifa	05/03/20 19	07/03/20 19	2	2x8.0	16
99	Lusail Emiri Guard	Al Ali Engineering Company WLL	-	Wadi Lusail	10/03/20 19	18/03/20 19	10	6x10.0;4x8.0;3TP	92
100	Dismtg. etc of Pump Station A,B,C	Ammico Contracting Co. WLL	Kahrama a	Ras Abu Fantas	15/03/20 19	19/03/20 19	13	13x10.0	130
101	Earthing at C 299 Project	QBC	Kahrama a	Industrial Area	21/03/20 19	26/03/20 19	5	5x10.0	50
102	Umm Al Dome Improvement	Petroserv LtdStrukton Co. & Tdg. JV	Ashghal	Maider	23/03/20 19	26/03/20 19	2	2x13.0	26



103	Earthing at RIW in N. Area Phase 3	Mahannadi for leveling & Paving Roads	Ashghal	Northern Area	25/03/20 19	27/03/20 19	2	1x11.5,1x12.0	23.5
104	Doha Port Diving Pool Re-Development	Domopan	Supreme Committ ee	Doha Port	28/03/20 19	10/05/20 19	6	1x85,3x80,2x60; GPR	440
105	Roads & Infrastructure, Phase 1 Pkg. 3	Al Ghanim International WLL- NICC JV	Ashghal	Al Khartiyat	28/03/20 19	09/04/20 19	5	3x10.0;2x8.0	46
106	B+G+1+P Private Villa	Jassim Al Hammadi	-	Ain Khaled	02/04/20 19	05/04/20 19	2	2x15.0	30
107	School Building	Sharaka Holdings	-	Al Ebb	06/04/20 19	10/04/20 19	5	5x12.0	60
108	Qatar Technical Project	Domopan	-	Al Udeid	15/04/20 19	23/04/20 19	7	7x10.0; GPR	70
109	Mina District	Domopan	Supreme Committ ee	Doha Port	10/04/20 19	21/04/20 19	-	-	-
110	Mina District	Domopan	Supreme Committ ee	Doha Port	25/04/20 19	25/05/20 19	12	12x30.0	360
111	B+G+2 Outpatient Complex	ICT Insha	-	Al Wukair	24/04/20 19	28/04/20 19	3	3x15.0	45
112	LC18105800-ECS for Support Building	Energprojekt-Entel	-	Dukhan	26/04/20 19	10/05/20 19	4	4x15.0; 29TP	60
113	Warehouse for DHL	ITCC	-	Ras Abu Fantas	-	-	-	-	-
114	Earthing	Power Action Gulf LLC	-	New Industrial Area	20/05/20 19	25/05/20 19	7	7x15.0	105
115	Geotechnical Investigation	Hala Group Enterprises	-	Pearl Qatar	30/05/20 19	02/06/20 19	3	3x10.0	30
116	Birkat Al Awamer	ITCC	-	Birket Al Awamer	28/05/20 19	06/06/20 19	12	5x15.0;6x10.0	120
117	G+1+P Villa	EGEC Qatar for Engineering Cons	-	Waterfront, Lusail	-	-	-	-	-
118	Al Udeid Air Base	Domopan	-	Al Udeid	10/06/20 19	15/06/20 19	7	1x25.0; 6x10.0	85
119	B+G+2 School Building	Pearl School	-	Umm Basher Thumama	02/06/20 19	10/06/20 19	5	1x12.0; 4x8.0	44
120	66/11 kV Sub Station	Siemens Consortium	Kahrama a	Rawdat Al Khail 2	26/06/20 19	04/07/20 19	3	3x10.0; 3TP	30
121	132/11 kV Sub Station	Siemens Consortium	Kahrama a	Al Mansoura	26/06/20 19	04/07/20 19	3	3x10.0; 3TP	30
122	Roads & Infrastructure, Phase 1 Pkg. 3	Al Ghanim International WLL- NICC JV	Ashghal	Al Khartiyat	22/06/20 19	26/06/20 19	2	2x14.0	28



123	4 G+3 Labor Acco.; G+1 Service Bldg.	Dana Palace	-	St 26, Industrial Area	22/06/20 19	26/06/20 19	2	2x20.0	40
124	Woqod Petrol Station Cat. I	Woqod	Woqod	Al Thumama - 3	23/06/20 19	27/06/20 19	3	1x20;2x10; 4TP	40
125	Woqod Petrol Station Cat. II	Woqod	Woqod	Al Hilal	01/07/20 19	09/07/20 19	4	2x20;2x10; 4TP	60
126	Woqod Petrol Station Cat. III	Woqod	Woqod	Umm Al Seneem	04/07/20 19	15/07/20 19	6	2x20;4x10; 4TP	80
127	Woqod Petrol Station Cat. I	Woqod	Woqod	Al Baaya	16/07/20 19	22/07/20 19	3	1x20;2x10; 4TP	40
128	Woqod Petrol Station Cat. II	Woqod	Woqod	Al Mearad - 2	23/07/20 19	06/08/20 19	4	2x20;2x10; 4TP	60
129	Woqod Petrol Station Cat. II	Woqod	Woqod	Al Wajba 2	03/07/20 19	15/07/20 19	4	2x20;2x10; 4TP	60
130	Woqod Petrol Station Cat. I	Woqod	Woqod	Al Markhiya Extension	23/07/20 19	01/08/20 19	3	1x20;2x10; 4TP	40
131	Woqod Petrol Station Cat. I	Woqod	Woqod	Dafna	20/07/20 19	27/07/20 19	3	1x20;2x10; 4TP	40
132	Woqod Petrol Station Cat. II	Woqod	Woqod	Al Sailiya 2	16/07/20 19	28/07/20 19	4	2x20;2x10; 4TP	60
133	Woqod Petrol Station Cat. III	Woqod	Woqod	Ras Laffan	06/10/20 19	14/10/20 19	6	2x20;4x10; 4TP	80
134	Woqod Petrol Station Cat. II	Woqod	Woqod	Al Wajba 3	24/06/20 19	02/07/20 19	4	2x20;2x10;4TP	60
135	GTC556/2013	Boom Construction Company	Ashghal	Garrafa	04/07/20 19	07/07/20 19	1	1x14.0	14
136	Earthing	Petroserv LtdStrukton Co. & Tdg. JV	Ashghal	Maider	10/07/20 19	14/07/20 19	2	2x15.0	30
137	2B+G+M+14+P Hotel Building	Covert Engineering & Trading	-	Salata, Doha	16/07/20 19	28/07/20 19	2	2x30.0	60
138	QS-49 Package 4	Al Sarh Trading & Contracting	Ashghal	Al Meshaf	22/07/20 19	15/09/20 19	22	2x10;1x11;6x12;1x13;2x14;1x15;2x16;1x17.5;1x16.5;1x19;1x20 ;1x21;1x22;1x23	330
139	Development of ISF Camp Health Center	Al Ali Engineering	ISF	AL Duhail	27/07/20 19	30/07/20 19	1	15	15
140	Villa	Al Nasr Construction Dynamics	-	Al Rayyan	31/07/20 19	10/08/20 19	2	10	20
141	G+3 Villa	Medgulf Construction Co. WLL	-	Umm Zubar	04/08/20 19	10/08/20 19	3	10	30
142	MTM Farm	QBC	-	AL Guwairiya	05/08/20 19	18/08/20 19	104	1	104
143	2B+G+2 Commercial Building	Covert Engineering & Trading	-	Al Hilal	15/08/20 19	25/08/20 19	3	20	60
144	B+G+1 Villa (Jaber Nasser) 133	Al Hattab Contracting	-	Wukair	01/09/20 19	03/09/20 19	1	1x10.0	10



145	B+G+1 Villa (Abdel Hady) 134	Al Hattab Contracting	-	Wukair	01/09/20 19	03/09/20 19	1	1x10.0	10
146	Earthing at Technical Institute J-038	Domopan	-	Al Uaeid	05/09/20 19	14/09/20 19	2	2x20.0	40
147	B+G Shooting Range Building	ICT Insha	-	Al Waab	05/09/20 19	12/09/20 19	3	3x12.0	36
148	G+M+3 Military Medical Complex	НВК	MMC	Al Sailiya	08/09/20 19	19/09/20 19	14	14x20; 4TP	280
149	Slope Stability of 2B+G+M+S+7+Rd Bldg	ICT Insha	-	Al Mansoura	08/09/20 19	12/09/20 19	6	1 Section	150
150	Woqod Petrol Station Cat. III	Woqod	Woqod	Mearad 3	16/09/20 19	23/09/20 19	3	1x20;2x10; 4TP	80
151	Woqod Petrol Station Cat. III	Woqod	Woqod	Mearad 4	16/09/20 19	23/09/20 19	6	2x20;4x10; 4TP	60
152	Earthing Boreholes	Al Tawfeeq & Partners	-	Al Khor	16/09/20 19	17/10/20 19	38	38x6.0-8.0	320
153	Earthing boreholes	QBC	-	Industrial Area	21/09/20 19	30/09/20 19	10	10x20.0	200
154	B+G+1 Villa Besement Test	Ali Jumah Buojallour	-	Wadi Al Banat	02/10/20 19	07/10/20 19	2	2x15.0	30
155	G+1+P Villa, Swimming pool	Al Jazeera General Trading	-	Markhiya	03/10/20 19	07/10/20 19	4	1x12; 3x10.0	42
156	Store, Showroom, Labor Room	Top Const. & Services & Tra. & Steel Bldg	-	Umm Salal	05/10/20 19	10/10/20 19	4	4x12.0	48
157	Slope Stability for Residential & School Building	Al Ali Engineering	-	Near Qatar Mall, Al Rayyan	02/10/20 19	07/10/20 19	-	1 Section	-
158	Slope Stability for Energy Center	Al Ali Engineering	-	Near Qatar Mall, Al Rayyan	07/10/20 19	10/10/20 19	-	1 Section	-
159	Slope Stability for 2B+3P+12 Mixed Use Building	Al Insha Company WLL	-	AL Erkyah	07/10/20 19	12/10/20 19	-	3 Sections	-
160	Grand Zone , Mall of Qatar	Al Ali Engineering	-	Near Qatar Mall, Al Rayyan	09/10/20 19	21/10/20 19	6+2	2x30;2x20;1x25;1x15	185
161	Project 110 Khamis Masoud Sultan Al Kabi	Al Hattab	-	Hamama	17/10/20 19	18/10/20 19	1	1x15.0	15
162	Project 144 Shuaa & Munira Sultan Al Kabi	Al Hattab	-	Hamama	15/10/20 19	17/10/20 19	2	2x15.0	30
163	Doha British School	Artan Holding	-	Rawdat Al Hamama	06/10/20 19	23/10/20 19	18	13x9.0;5x19.0	212
164	QSTP Proposed Boundary Wall	IMATA Construction	-	Education City, Al Rayyan	10/10/20 19	20/10/20 19	GPR	3TP; 3 PLT	-



165	Design & Build of Recycled Water Supply	Temalco Contracting & Trading Co. WLL	-	Doha North STW-CP817	21/10/20 19	02/11/20 19	7	4x20;1x18;1x15;1x13	126
166	Asphalt Plant	InfraRoad Trading & Contg. LLC	-	MIC, Masieed	20/10/20 19	26/10/20 19	5	1x20;4x15;5TP	80
167	Earthing for Design & Build Grand Zone	Al Ali Engineering Co.	-	Al Rayyan	19/10/20 19	29/02/20 20	240	240x30	8511
168	Oil Recycling Plant	QELP Services QFZ LLC	-	Umm Al Houl	27/10/20 19	30/10/20 19	5	5x8.0	40
169	Umm Al Dome Improvement	Petroserv LTD	Ashghal	Muaither	26/10/20 19	28/10/20 19	4	4x12.0	48
170	WH 21 Ras BuFontas Free Zone	Qatar Free Zone Authority	-	Ras Abu Fantas	24/10/20 19	01/11/20 19	4	4x15.0	60
171	Design & Const. of Chilled Water Tie in connection	EGEC Qatar for Engineering Cons	Ashghal	Aspire Zone	06/11/20 19	08/12/20 19	14	6x15.0;8x5.0;5TP	130
172	M177 Radar Maintenance & Workshop	Medgulf Construction Co. WLL	-	Abu Samra (U)	-	-	3	3x10.0	30
173	Woqod Petrol Station Cat. II	Woqod	Woqod	Irsayyen	14/11/20 19	19/11/20 19	4	2x20;2x10;4TP	60
174	Woqod Petrol Station Cat. I	Woqod	Woqod	Onaiza	13/11/20 19	20/11/20 19	3	1x20;2x10; 4TP	40
175	Mosque-11	Convert Engineering & Trading	AWQAF	Mesaieed	19/11/20 19	23/11/20 19	2	2x10.0	20
176	Duhail Villa	Al Hattab Holding	-	Duhail	20/11/20 19	23/11/20 19	2	1x6.0; 1x8.0	14
177	B+G+3 Villa	EGEC Qatar for Engineering Cons	ı	Lusail	21/11/20 19	30/11/20 19	4	4x15	60
178	AC819-Construction of Diversion of Seewage Flow	QBC	•	Ain Khaled	23/11/20 19	07/12/20 19	-	30TP	-
179	Umm Al Dome Improvement	Petroserve Ltd	Ashghal	Muaither	23/11/20 19	26/11/20 19	3	3x12.0	36
180	Earthing	National Contracting Co. Ltd.	-	Al Shalah 2, Umm Salal	12/12/20 19	15/12/20 19	20	20x10.0	200
181	Earthing (CNG Bus Parking)	Collosa Contracting & trade Company	-	Industrial Area	30/11/20 19	07/12/20 19	4	4x10.0	40
182	Construction of Diversion for sewage flows from Doha Industrial Area to Doha West STW-PS IA2 to PS 32A-312	QBC	-	Industrial Area	30/11/20 19	-	33	12x20; 21x10	450
183	3B+G+M+10+PH Hotel Building	Al Sarif Group	-	Al Hitmi	03/12/20 19	10/12/20 19	3	3x25.0	75
184	66/11 kV Luaib Substation	Siemens Consortium	Kahrama a	Al Luaib	04/12/20 19	14/12/20 19	4	1x10;3x12;3TP	46
185	Roads Improvement Works in Northern Area Phase-4	Al Mohannadi for Roads Trading & Contracting WLL	Ashghal	Al Dayyen	08/12/20 19	11/12/20 19	3	3x15.0	45
186	Plant Laffan Resin Factory	QBC	-	Umm Saieed	04/12/20 19	12/12/20 19	10	8x15;2x10	140



187	Road Improvement Work PH 6A	Ramco	Ashghal	Greater Doha, Al Markhiya	12/12/20 19	12/12/20 19	-	2ТР	-
188	B+G+M Building Material Warehouse	Gulf Stone	-	Rawdat Al- Awamer	12/12/20 19	14/12/20 19	3	3x10.0	30
189	Roads & Infrastructure in south of Meshaf	Al Sarah Holding Group	Ashghal	Al Meshaf	13/12/20 19	14/12/20 19	4	2x30;2x20	100
190	Aramco	Ramco	-	Salwa Road	15/12/20 19	15/12/20 19	-	ЗТР	-
191	Private Villa	Nawaf	-	Izgawa	15/12/20 18	17/12/20 19	2	2x10.0	20
192	FIFA Readiness Project FRP-03	нвк	Ashghal	Al Thumama	14/12/20 19	18/02/20 20	60	60BH; 10TP	480
193	FIFA Readiness Project FRP-07 (Earthing)	QBC	Ashghal	Al sailiya	25/12/20 19	02/01/20 20	12	12x20.0	240
194	B+G+3 Commercial & Residential Bldg.	Gulf Oriental Trading & Services	-	Al Doha Al Jadeeda	01/01/20 20	02/01/20 20	2	2x20.0	40
195	G+M+3 Military Medical Complex	НВК	MMC	Al Sailiya	01/01/20 20	07/01/20 20	4	4x15.0	60
196	Woqod Petrol Station Cat. II	Woqod	Woqod	Mekaines-2	07/01/20 20	10/01/20 20	4	2x20;2x10; 4TP	60
197	2B+G+4 Residential Building	Al Boroug Wataneya	-	RES/D27 Foxhill, Lusail	22/01/20 20	25/01/20 20	2	2x25.0	50
198	C313 Fifa Readiness (Geophysical)	QBC	Ashghal	Onaiza & Al Markhiya	13/01/20 20	03/01/20 20	-	22.0 KM	-
199	Asghal Roads & Infrastructure (GPR)	Al Sarh Trading & Contracting	Ashghal	Kharaitiyat & Izghawa	14/01/20 20	18/01/20 20	-	8.0 KM	-
200	B+G+1+Ph Villa	EGEC Qatar for Engineering Cons	-	Umm Al Rous/Legtaifiy a	15/01/20 20	19/01/20 20	3	3x15.0	45
201	Officers Military Club Building	Al Ali Engineering	IFC	CPC-07c, Umm Salal	19/01/20 20	22/01/20 20	4	1x30;1x15;2x10	65
202	Slope Stability (Technical Institute)	Domopan	-	Al Udeid	24/01/20 20	25/01/20 20	-	-	-
203	Earthing (Umm Al Dome)	Petroserve Ltd	Ashghal	Maither	27/01/20 20	08/02/20 20	15	10x15;2x10;1x13;1x14;1x12	209
204	Packer Test (U0785N300) Project	UCC	-	Al Zoobara	28/01/20 20	28/01/20 20	3	3x7.0	21
205	C-299 Earthing Pkg 3	QBC	Ashghal	Industrial Area	02/02/20 20	11 finish	158	1x17,4x18,1x15,4x20,1x35	219
206	G+1+P Villa & Out Kitchen	Sultan Tower Contracting WLL	-	Abu Hamour	12/02/20 20	15/02/20 20	2	2x10.0	20
207	MTBE Plant RGS (Regenerant Gas Scrubber)	Petroserve Ltd	-	Messaied	03/03/20 20	07/03/20 20	3	3x15.0	45
208	Road & Infrastructure Phase-1 TA11	Al Sarh Trading & Contracting	Ashghal	Khartiyat & Izghawa	18/02/20 20	22/02/20 20	3	3x27.0	81



209	Substation	Al Ali Engineering	Kahrama a	Messaied	15/02/20 20	16/02/20 20	2	1x6.0;1x10.0	16
210	B+G+1+PH Private Villa	Al Hattab	-	Rawdat Al Jahaniya	16/02/20 20	20/02/20 20	2	1x15; 1x10	25
211	Road & Infrastructure Pck 7	QBC	Ashghal	Industrial Area	17/02/20 20	25/03/20 20	14	16x15.0	240
212	Consolidated Squadron Operation Facility	MVL USA, INC	-	Al Udeid	17/02/20 20	26/02/20 20	4	4x14.0; 4TP	56
213	Private Villa (Mohd Islam ElSanhoury)	Sanhoury (Pin 91252231)	-	Birkat Al Awamer	23/02/20 20	24/02/20 20	2	2x10.0	20
214	132 kV OHL between MAK to Ain Sinan	New Noor Contracting & Trading Company	Kahrama a	Madinat Al Kabaan	24/02/20 20	11/03/20 20	22	22x10.0	220
215	Earth Pits for ECQ-1	QBC	-	Energy City, Lusail	12/03/20 20	17/03/20 20	8	8x15.0	120
216	Woqod Petrol Station Cat. I	Woqod	Woqod	Bu Sidra	31/03/20 20	06/04/20 20	3	1x20;2x10;4TP	40
217	Woqod Petrol Station Cat. II	Woqod	Woqod	Sailiya 3	31/03/20 20	06/04/20 20	4	2x20;2x10; 4TP	60
218	Woqod Petrol Station Cat. I	Woqod	Woqod	Ain Khaled 3	31/03/20 20	05/04/20 20	3	1x20;2x10; 4TP	40
219	Covid 19 Hospital	Redco Internation WLL Qatar	-	Umm Salal	22/03/20 20	24/03/20 20	10	10x10.0	100
220	Slope Stability for Micro Tunnelling	НВК	Ashghal	Al Thumama	24/03/20 20	25/03/20 20	-	-	-
221	Slope Stability for Storm Water Tank	Al Ali Engineering	Ashghal	Al Rayyan	25/03/20 20	26/03/20 20	-	-	-
222	Earthing (Umm Al Dome)	Petroserve Ltd	-	Maither	30/03/20 20	06/04/20 20	6	5x10.0; 1x9.0	59
223	Earthing	NCC (National Contg. Co. Ltd.)	-	Al Shalah, Umm Salal	01/04/20 20	05/04/20 20	10	10x10.0	100
224	Earthing for Design & Build Grand Zone	Al Ali Engineering Co.	-	Al Rayyan	06/04/20 20	14/04/20 20	32	32x36	1152
225	Slope Stability for Package 3	Petroserve Ltd	-	Al Maider	06/04/20 20	07/04/20 20	-	-	-
226	Slope Stability for School Building	Al Ali Engineering	-	Al Rayyan	07/04/20 20	08/04/20 20	-	-	-
227	Saliyah Power Plant	Qatar Electricity & Water Co. (QEWC)	QEWC	Saliyah	09/04/20 20	13/04/20 20	8	8x5.0	40
228	Al Wajbah Power Plant	Qatar Electricity & Water Co. (QEWC)	QEWC	Al Wajbah	10/04/20 20	-	12	12x5.0	60
229	Doha South Super Power Plant	Qatar Electricity & Water Co. (QEWC)	QEWC	Doha South	10/04/20 20	13/04/20 20	4	4x5.0	20
230	Slope Stability Roads & Infrastructure	Al Sarah Holding Group	-	Al Meshaf	11/04/20 20	12/04/20 20	-	-	-



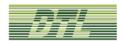
231	Road Improvement Work	Ramco	Ashghal	Onaiza	14/04/20 20	14/04/20 20	-	2 TP	-
232	Add. 1st Floor on existing Edison Sch.	Oriental Scout Engineering & Cons.	-	Al Rayyan	22/04/20 20	23/04/20 20	1	1x10.0	10
233	East 200 Project	Al Nasr Construction Dynamics	-	Al Udeid	25/04/20 20	02/05/20 20	6	6x20.0	120
234	SPT	UCC	-	Peral Qatar	25/04/20 20	27/04/20 20	3	3x9.0	27
235	G+1 Villa	Charlescross-London Co.	-	Rawdat Al Hamama	03/05/20 20	04/05/20 20	2	2x15.0	30
236	Gulf crane & Steel Structure Street 12	AAES New Site	-	New Industrial Area	03/05/20 20	06/05/20 20	2	2x10.0	20
237	Shaikha Rashid S Al-Kaabi Villa	Al Hattab Group	-	Madinat Khalifa South	05/05/20 20	07/05/20 20	2	1x10.0; 1x6.0	16
238	GPR	IMATA Construction	-	New Hamad Airport	07/05/20 20	07/05/20 20	-	-	290
239	G+1 Obad Saeed O K Al-Abdulla Villa	Technical Engineering Lab	-	Al Kheesa (Near Ikea)	12/05/20 20	14/05/20 20	2	2x10.0	20
240	Earthing	Terratest Qatar (Petroserve)	-	Maider	13/05/20 20	21/05/20 20	11	5x13.0; 1x12.0;1x11;1x10.5;2x10;1x4;1x3.5	126
241	Obad Saeed O K Al-Abdulla Villa	Al Hattab Group	-	Rawdat Al Hamama	12/05/20 20	15/05/20 20	2	1x10.0; 1x5.0	15
242	Earthing (Umm Al Dome)	Petroserve Ltd	-	Maither	16/05/20 20	23/05/20 20	9	-	-
243	B+G+1+P Villa	Nasser Ahmad H A Al Neama	-	Al Wakra	19/05/20 20	21/05/20 20	2	1x10.0;1x15.0	25
244	MASW & GPR	QBC 313	-	Onaiza	21/05/20 20	21/05/20 20	-	5 lines	-
245	Earthing	Al Hattab Group	-	Karwaa Driving School	30/05/20 20	04/06/20 20	2	2x15.0	30
246	Earthing for Design & Build Grand Zone	Al Ali Engineering Co.	-	Al Rayyan	15/04/20 20	20/06/20 20	46	38x36;8x40.0	1688
247	1.5m inside SIMSIMA Limestone	UCC	-	Pearl Qatar	02/06/20 20	05/06/20 20	2	2x13.0	26
248	Earthing	InfraRoad Trading & Contg. LLC	Private	Mesaieed	06/06/20 20	07/06/20 20	3	3x3.0	9
249	Private Villa (B+G+1)	Abdulaziz Ahmad H A Al- Neama	Private	Wadi Al Banat	08/06/20 20	10/06/20 20	2	1x15;1x10	25
250	Car Park QDC Facility	TEL (Qatar Airways)	Qatar Airways	Abu Hamour	10/06/20 20	13/06/20 20	8	8x4.0; 2TP	32
251	Boundary Wall for MJ-166 Villa Jaidah Family	Medgulf Construction Co. WLL	Private	Legtaifiya Lagoon	13/06/20 20	16/06/20 20	2	2x16.0	32
252	Earthing (Construction of pkg 7)	Al Tawfeeq Contracting	Ashghal	Ain Khaled	15/06/20 20	14/07/20 20	44	35x15;2x30;1x7;2x6;1x11;2x10;1x9	644



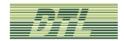
253	MASW (Geophysical)	Petroserve Ltd	Ashghal	Muaither	15/06/20 20	15/06/20 20	-	4 lines	-
254	Gewan Island Marine Work	UCC	-	Gewan Island	18/06/20 20	23/06/20 20	4	1x9.0;3x10;	39
255	Earthing	UCC	-	Dukhan	22/06/20 20	24/06/20 20	6	3x7;1x16;2x30	97
256	4 Private Villas (LPS 33,34,35 & 36)	Convert Engineering & Trading	Private	Pearl Qatar	18/06/20 20	22/06/20 20	4	4x15.0	60
257	2B+G+6 Residential Bldg. LPS02	Convert Engineering & Trading	Private	Pearl Qatar	23/06/20 20	06/07/20 20	7	3x25.0;4x15.0	135
258	Roads & Infrastructure	Petroserve Ltd	Ashghal	South of Al Meshaf	21/06/20 20	25/07/20 20	30	14x15;2x16;2x17;1x18;2x19;1x20;1x13; 7x14	463
259	East 200 Project (Grouting Confirmation)	Al Nasr Construction Dynamics	Qatar Armed Forces	Al Udeid	22/06/20 20	25/06/20 20	1	1x10.0	10
260	Water Table report (MMC) Tunnel area	НВК	MMC	Al Sailiya	24/06/20 20	24/06/20 20	2	-	-
261	VW & WH Project	Noors Engineering WLL	-	Qatalum	27/06/20 20	27/06/20 20	2	2x4.5	9
262	Woqod Petrol Station Cat. II	Woqod	Woqod	Lusail	26/06/20 20	01/07/20 20	4	2x20;2x10; 4TP	60
263	CP/18-6 Mixed Use Basement/ grouting	China Railway 18th Bureau Group WLL	-	Plot 3 to 7, Gewan Island	01/07/20 20	28/07/20 20	101	101x16.5	1677 .5
264	Roads & Infrastructure Pkg.1	Galfar Al Misnad Engg. & Contg. WLL	Ashghal	Al wajba	05/07/20 20	23/07/20 20	10	6x10;4x20	140
265	Geotechnical Investigation	Al Ali Engineering	-	Wakra	06/07/20 20	07/07/20 20	2	2x15.0m	30
266	Al Maha Center (Earthing Borehole)	Takyeef Electromechanical WLL	Private	Al Wakra	08/07/20 20	06/08/20 20	22	22x12.5	276
267	Earthing	InfraRoad Trading & Contg. LLC	-	Mesaieed	20/07/20 20	21/07/20 20	2	2x3.0	6
268	Construction of flood prevension scheme (FPS-3)	нвк	Ashghal	Bu Sidra Al Mearad	23/07/20 20	05/08/20 20	5	5x20.0	100
269	Construction of flood prevension scheme (FPS-3)	НВК	Ashghal	Old Airport	24/07/20 20	11/08/20 20	18	18x20.0	360
270	Construction of flood prevension scheme (FPS-3)	нвк	Ashghal	Ain Khalid	27/07/20 20	17/08/20 20	26	26x20.0	520
271	Construction of flood prevension scheme (FPS-3)	НВК	Ashghal	Mamoura	11/08/20 20	17/08/20 20	10	10x20.0	200
272	Construction of flood prevension scheme (FPS-3)	НВК	Ashghal	Al Wakra	-	-	24	24x20.0	480
273	Earthing for Design & Build Grand Zone	Al Ali Engineering Co.	-	Al Rayyan	22/07/20 20	23/07/20 20	4	4x36	144
274	MASW Geophysical Survey	Redco Internation WLL Qatar	-	Lusail near Al Khor Coastal	17/07/20 20	30/07/20 20	-	-	-



275	Beach House	Sharaka Holdings	Lacasa	Al Khor	29/07/20 20	06/08/20 20	5	5x15.0	75
276	G+M Store, G+2 Accommodation etc	TEL	Private	Birkat Al Awamer	19/08/20 20	21/08/20 20	5	5x6.0	30
277	B+G+1+PH Villa (Pin No. 70100118)	Charlescross-London Co.	Private	Rawdat Al Hamama	18/08/20 20	22/08/20 20	2	2x12.0	24
278	GPR	QBC	Ashghal	Furusiya Street	10/08/20 20	12/08/20 20	-	-	-
279	C-299 Earthing Pkg 3	QBC	Ashghal	Industrial Area	09/08/20 20	13/08/20 20	11	1x17,4x18,1x15,4x20,1x35	162
280	66/11 kV DIA Substation	Siemens Consortium	Kahrama a	Industrial Area	16/08/20 20	18/08/20 20	1	1x14.0	14
281	Graveyard	Ibrahim Al Mohannadi	-	Al Khor	16/08/20 20	23/08/20 20	10	1x10;9x5.0	55
282	9 G+1 Villas	Fast Integrated Services	Private	Al Rayyan	16/08/20 20	25/08/20 20	9	9x10.0	90
283	Private G+1 Villa	Badria Kafood	Private	Wukair	16/08/20 20	17/08/20 20	2	1x5.0;1x10.0m	15
284	B+G+2 Office Building	Makka Integrated Constructions	Private	Doha Jadeed	20/08/20 20	23/08/20 20	2	2x15.0m	30
285	Private G+1 Villa	Badria Kafood	Private	Umm Al Saneem	18/08/20 20	20/08/20 20	2	1x5.0;1x10.0m	15
286	Private G+1 Villa	Badria Kafood	Private	Umm Al Afaii	16/08/20 20	18/08/20 20	2	1x5.0;1x10.0m	15
287	Geo Investigation	ACT	QAF	Dukhan	22/08/20 20	01/09/20 20	5+4+2	9x15;2x20	175
288	Earthing (Construction of pkg 7)	Al Tawfeeq Contracting	Ashghal	Al khor	23/08/20 20	27/08/20 20	9	3x7.0;6x12.0	93
289	Villa (Faizal Pin 90040354)	Al Hattab Consultancy	Private	Al Meshaf	24/08/20 20	25/08/20 20	2	1x5.0;1x10.0	15
290	GPR	QBC	Ashghal	Al Rayyan Ind. Area	23/08/20 20	24/08/20 20	-	4 locations	-
291	Villa Al Qubaisi (Pin 90040138)	Al Hattab Consultancy	Private	Al Wakrah	25/08/20 20	27/08/20 20	2	1x5.0;1x10.0	15
292	Villa (Pin 90040138)	Al Hattab Consultancy	Private	Al Ruwais	27/08/20 20	29/08/20 20	2	1x5.0;1x10.0	15
293	Ext. of Ras Abu Aboud Rd & Doha Metro Goldline	DIC international	Ashghal	Ras Abu Fantas	30/08/20 20	01/09/20 20	2	2x10.0	20
294	Construction of flood prevension scheme (FPS-3)	QBC	Ashghal	Oniza & Al Markhiya	19/09/20 20	-	42	42x15; 30 TP	-
295	Metal Industry	Golden Sail Metal Industry	-	Umm Al Houl Free Zone	04/09/20 20	13/09/20 20	6	4x15;2x10.0	80
296	Farm Villa & Majlis	Midmac	Private	Al Wabra, Shahaniya	07/09/20 20	12/09/20 20	5	5x10.0	50



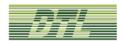
297	G+1 Villa	Badria Kafood	Private	Wukair	05/09/20 20	06/09/20 20	2	1x5.0;1x10.0	15
298	East 200 Project	Al Nasr Dynamics	-	Umm Taqa	06/09/20 20	07/09/20 20	1	1x20.0	20
299	Geo Investigation	ACT	QAF	Shamal	10/09/20 20	24/09/20 20	9+2	2x20;9x15;10 TP	175
300	G+1 Villa	Badria Kafood	Private	Wukair	09/09/20 20	10/09/20 20	2	1x5.0;1x10.0	15
301	G+1 Villa	Badria Kafood	Private	Umm Al Saneem	10/09/20 20	11/09/20 20	2	1x5.0;1x10.0	15
302	MASW	FCC Construction	-	Lusail	19/09/20 20	20/09/20 20	-	5 lines	-
303	Fabrication Shop	Petroserve Ltd	-	Industrial Area	20/09/20 20	03/10/20 20	13	6x12.0;7x8.0	78
304	B+G+1+P Villa	Dolphin Group	Private	Semsaima	21/09/20 20	22/09/20 20	2	2x10.0	20
305	G+1 Villa	Dimension Engineering	Private	Al Thumama	23/09/20 20	24/09/20 20	1	1x10.0	20
306	Earthing	Petroserve Ltd	Ashghal	Umm Al dome	23/09/20 20	16/10/20 20	16	16x12.5	198
307	MASW	Sino Hydro	Kahrama a	Al Kasra, Shahaniya Village	27/09/20 20	06/10/20 20	-	-	-
308	GPR	Al Balagh Trading & Contg. Co.	Qatar Rail	QP District, Dafna	17/09/20 20	21/11/20 20	-	18 locations	-
309	Earthing (Construction of pkg 7)	Al Tawfeeq Contracting	Ashghal	Ain Khaled	26/09/20 20	01/10/20 20	15	15x15	225
310	G+1 Villa	Badria Kafood	Private	Al Rayyan	01/10/20 20	02/10/20 20	2	1x5.0;1x10.0	15
311	Factory	Arrow Heat Exchanger Factory	Private	Industrial Area	03/10/20 20	05/10/20 20	3	3x12.0	36
312	Ext. of Qafac Methanol/ MTBE Facility	Al Mughsar Qatar (QAFAC)	QAFAC	Umm Saieed	05/10/20 20	17/10/20 20	3	2x15;1x25.0	55
313	Interim Road Improvement Phase 2	Al Mohannadi for Roads Trading & Contracting WLL	Ashghal	Al Wukair-Al Wakra	10/10/20 20	25/10/20 20	15+3	15x15;1x25;1x20	290
314	Qatar National Library Project 17070003	Arab Engineering Bureau AEB	-	Al Rayyan	05/10/20 20	15/10/20 20	3	1x10;2x8.0	26
315	Slope Stability for UG Sewer Tank	Al Ali Engineering	Ashghal	Al Rayyan	04/10/20 20	21/10/20 20	-	-	-
316	G+1 Secondary School Girls	Arab Engineering Bureau AEB	Ashghal	90080019 Al Wakra	06/10/20 20	10/10/20 20	5	5x8.0	40
317	Al Khisa Preparatory School boys # 2	Arab Engineering Bureau AEB	Ashghal	70101923 Rawdat Al Hamama	10/10/20 20	17/10/20 20	8	4x12;2x8;2x7	78



318	G+1 Secondary School - Girls	Arab Engineering Bureau AEB	Ashghal	71440253 Umm Salal	16/10/20 20	20/10/20 20	6	4x12;2x8.0	16
319	Preparatory School - Girls	Arab Engineering Bureau AEB	Ashghal	71510018 Bu Fessella	13/10/20 20	16/10/20 20	6	6x8.0	48
320	G+1 Primary School - Girls	Arab Engineering Bureau AEB	Ashghal	91040718 Al Wukair	06/10/20 20	11/10/20 20	7	7x8.0	56
321	G+1 Secondary Boys School	Arab Engineering Bureau AEB	Ashghal	70210100 Al Kheesa	10/10/20 20	17/10/20 20	8	4x12;2x8;2x7	78
322	G+1 Preparatory School - Boys	Arab Engineering Bureau AEB	Ashghal	91040717 Al Wukair	06/10/20 20	11/10/20 20	6	6x8.0	48
323	G+1 Secondary School - Girls	Arab Engineering Bureau AEB	Ashghal	53570007 Rawdat Al Naisar	16/10/20 20	20/10/20 20	6	4x8.0;2x7.0	50
324	G+1 Villa	Badria Kafood	Private	Ras Laffan	25/10/20 20	30/10/20 20	2	1x10.0;1x5.0	15
325	GPR+Topography	Takyeef Electromechanical WLL	-	Aspire Zone	03/10/20 20	07/10/20 20	-	-	-
326	Cafeteria, Office & Parking at Diplomatic Club	Arab Engineering Bureau AEB	-	Legtaifiya	15/11/20 20	19/11/20 20	4	1x10; 3x6	28
327	Road & Infrastructure Development	Al Sarah Holding Group	Ashghal	Al Meshaf	01/10/20 20	01/11/20 20	19	5x20;5x19;2x18;1x13;1x9;4x8;1x6	-
328	Apartment (G+5)	Gulf Stone	-	Najma	-	-	-	-	-
329	G+1 Villa	Charlescross-London Co.	Private	Onaiza	21/10/20 20	23/10/20 20	3	3x10.0	30
330	Geophysical (GPR), Pkg 7	QBC	Ashghal	Industrial Area	21/10/20 20	01/11/20 20	-	660m	-
331	G+1 Villa	Badria Kafood	Private	Rawdat Hamama	28/10/20 20	30/10/20 20	2	1x10.0;1x5.0	15
332	Domosco Storage Car Yard	EGEC Qatar for Engineering Cons	Ashghal	Birkat Al Awamer	26/10/20 20	31/10/20 20	14	10x12;2x15;4TP	150
333	Epic for Upgrade of Fire DetectionQPSFA	Control Contg & Tdg. Co. CCTC	Ashghal	Dukhan Field	28/10/20 20	01/11/20 20	6	1x20;5x10;2TP	70
334	2B+G+8 Res Building (LPS 3)	Convert Engineering & Trading	-	Lusail	31/10/20 20	07/11/20 20	7	2x25; 5x20	150
335	4B+G+7 Doha Central Bank Building	AEB	DCB	C-Ring Road Doha	07/11/20 20	13/11/20 20	3	1x35;1x33;1x28	96
336	G+1 Villa	Badria Kafood	Private	Al Mamoora	23/11/20 20	24/11/20 20	2	1x10.0;1x5.0	15
337	MASW	Al Ghanim International WLL- NICC JV	Ashghal	Al Dakhira	11/11/20 20	15/11/20 20	-	-	-
338	GPR	Boom Construction Company	Ashghal	Al Wakra	-	-	-	3 locations	-
339	GPR	Al Balagh Trading & Contg. Co.	Ashghal	QP District, Dafna	-	-	-	4 locations	-



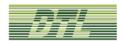
340	Settlement Cause and Rectification	Hyundai Rotem	-	Al Dakhira	22/11/20 20	07/12/20 20	4	4x25.0	100
341	Padestrian Bridge MOI 25	Redco Internation WLL Qatar	Ashghal	Khaleefa Street Markhiya	21/11/20 20	11/12/20 20	3	2x20; 1x10	50
342	Padestrian Bridge MOI 27	Redco Internation WLL Qatar	Ashghal	Al Jamiya Street Onaiza	06/12/20 20	28/12/20 20	4	2x20;2x10	60
343	Padestrian Bridge MOI 6	Redco Internation WLL Qatar	Ashghal	Industrial Street	29/12/20 20	-	5	3x20;2x10	80
344	Padestrian Bridge MOI 8	Redco Internation WLL Qatar	Ashghal	East Industrial	04/01/20 21	-	5	3x20;2x10	80
345	Padestrian Bridge MOI 20	Redco Internation WLL Qatar	Ashghal	Al Saad	07/01/20 21	-	4	2x20;2x10	60
346	Padestrian Bridge MOI 22	Redco Internation WLL Qatar	Ashghal	Madina Khalifa	19/01/20 21	-	3	3x20.0	60
347	Padestrian Bridge	Redco Internation WLL Qatar	Ashghal	-	-	-	3	-	-
348	Padestrian Bridge	Redco Internation WLL Qatar	Ashghal	-	-	-	3	-	-
349	G+1 Villa	Badria Kafood	Private	Rawdat Al Hamama	24/11/20 20	25/11/20 20	2	1x10.0;1x5.0	15
350	Woqod Petrol Station Cat. III	Woqod	Woqod	Golf Coarse	24/11/20 20	02/12/20 20	6	2x20;4x10; 6TP	80
351	Woqod Petrol Station Cat. III	Woqod	Woqod	Rawdat Egdaim	25/11/20 20	01/12/20 20	6	2x20;4x10; 6TP	80
352	Earthing	Al Nasr Dynamics	QAF	Umm Taqa	30/11/20 20	13/12/20 20	22	14x30	480
353	Private Villa	Dimension Engineering	Private	Muaither	01/12/20 20	02/12/20 20	2	2x8.0	16
354	Underground Tank for Substation	Al Ali Engineering	-	Al Mushrib	09/12/20 20	19/12/20 20	6	6x12.0	72
355	G+1 Villa	Badria Kafood	Private	Umm Basher Al Meshaf	11/12/20 20	13/12/20 20	2	1x10.0;1x5.0	15
356	G+2 Aberdeen University	DCB	-	Umm Gern	13/12/20 20	26/12/20 20	19	19x10.0	190
357	G+1+PH Villa	Redco Internation WLL Qatar	Private	Jelaiah	22/12/20 20	24/12/20 20	3	3x10.0	30
358	Earthing (SBH Port)	Al Waha Contg. & Trading	QP	Mesaieed	22/12/20 20	23/12/20 20	1	1x6.0	6
359	G+1 Villa	Badria Kafood	Private	Abu Hamour	26/12/20 20	29/12/20 20	2	1x10.0;1x5.0	15
360	MASW	Petroserve Ltd	Ashghal	Umm Al dome	22/12/20 20	23/12/20 20	-	-	-
361	Earthing	Trags	-	MIC, Masieed	26/12/20 20	26/12/20 20	1	1x8.0	8



362	G+1 Villa	Badria Kafood	Private	Lusail	26/12/20 20	29/12/20 20	2	1x10.0;1x15.0	25
363	Slope Stability of Residential Tower	China Railway 18th Bureau Group WLL	QNB	Lusail	28/12/20 20	30/12/20 20	-	1 Section	-
364	Earthing (Water Table Measurment)	Al Emmadi International Contrcution	Ashghal	Onaiza	31/12/20 20	01/01/20 21	1	1x5.0	5
365	GWC	Redco Internation WLL Qatar	-	Birkat Al Awamer	03/01/20 21	25/01/20 21	5	1x23.5	-
366	Flowmeter Installation for TSE Network	Mace Qatar	-	Ras Abuabbot	04/01/20 21	07/01/20 21	7	7x5.0	35
367	Earthing at C 299 Project	QBC	Ashghal	Industrial Area	29/12/20 20	03/01/20 21	8	15x1;20x1;21x3;22x2	142
368	B+G+P Villa	ATAK Engineering	Private	Pearl Qatar	09/01/20 21	13/01/20 21	3	1x15;1x10	25
369	Earthing	Medgulf Construction Co. WLL	QP	Ras Laffan	08/01/20 21	16/01/20 21	16	16x6.0	96
370	Majlis	Fast Integrated Services	-	Al Rayyan Municipality	16/01/20 21	18/01/20 21	2	2x10.0	20
371	Palace	Fast Integrated Services	-	Al Rayyan Municipality	13/01/20 21	15/01/20 21	2	2x10.0	20
372	Mosque	Dimension Engineering	AWQAF	Muaither	-	-	-	-	-
373	Mosque	Dimension Engineering	AWQAF	Fereej Kulaib	-	-	-	-	-
374	G+1 Villa	Badria Kafood	Private	Wukair	26/12/20 20	29/12/20 20	2	2x10.0	20
375	Road & Infrastructure Development	UCC	Ashghal	Kharatiyat	16/01/20 21	21/01/20 21	2	2x12.0	24
376	B+G+5 Building	Fast Integrated Services	-	Foxhill Lusail	-	-	-	-	-
377	MASW	Powerchina Guizhou Engg. Co. Ltd	-	Al Kharsaah	14/01/20 21	19/01/20 21	-	-	-
378	Flood Prevension Scheme FPS 3	Al Ghanim International WLL- NICC JV	Ashghal	Al Khor	21/01/20 21	-	32	32x15.0	480
379	Flood Prevension Scheme FPS 3	Al Ghanim International WLL- NICC JV	Ashghal	Lejmiya	25/01/20 21	05/03/20 21	6	6x15.0	90
380	Flood Prevension Scheme FPS 3	Al Ghanim International WLL- NICC JV	Ashghal	Al Shahaniya	-	-	16	16x15.0	240
381	Flood Prevension Scheme FPS 3	Al Ghanim International WLL- NICC JV	Ashghal	Al Shamal	-	-	25	25x15.0	375
382	Flood Prevension Scheme FPS 3	Al Ghanim International WLL- NICC JV	Ashghal	Umm Garn	-	-	24	24x15.0	360
383	G+1+P Palace	Makkah Integrating Cons. Co. WLL	Private	Gharaffa	27/01/20 21	30/01/20 21	3	3x10.0	30
384	Grouting & Soil Improvement WRPS	Hyundai Rotem	Kahrama a	Dhakhira	17/01/20 21	30/01/20 21	-	-	-



385	EPIC for NCWS Project MASW	Trags	QP	Maesaied	27/01/20 21	30/01/20 21	-	-	-
386	MASW	Power China	-	Al Kharsaah,	29/01/20 21	30/01/20 21	-	-	-
387	Earthing	Medgulf Construction Co. WLL	-	Ras Laffan	-	-	-	-	-
388	MASW Al Kharsah Solar Power Plant	Power China	-	Al Kharsah	-	-	-	-	-
389	Environment Test	QBC	Ashghal	Onaiza	-	-	3	3x10.0	30
390	MASW	Redco Internation WLL Qatar	Ashghal	-	-	-	-	-	-
391	G+1+PH Villa, outside majlis	Al Hattab Tradg, Contg & Real Estate	Private	Bani Hajer	08/02/20 21	11/02/20 21	2	2x8.0	16
392	Ammunation Store	CDCT	QAF	Al Sanaiya Camp	08/02/20 21	11/02/20 21	2	2x8.0	16
393	Earthing	Al Baker Trading Co	-	Dafna	-	-	-	-	-
394	MASW	ACT	QAF	Shamal	01/02/20 21	08/02/20 21	-	-	-
395	G+3 School Building	Oriental Scout Engineering & Cons.	Ashghal	Rawdat Al Hamama	14/02/20 21	-	3	3x20.0	60
396	B+G+1 Private Villa	Mr. Ali	Private	Umm Salal	14/02/20 21	17/02/20 21	2	2x15.0	30
397	Al Ali Main Office Extension	Al Ali Engineering WLL	-	Salata	-	-	2	2x10.0	20
398	MASW	GCC	-	Pearl Qatar	10/02/20 21	11/02/20 21	-	9 lines	-
399	G+1 Villa	Badria Kafood	Private	Al Ebb	16/02/20 21	17/02/20 21	2	1x10.0;1x5.0	15
400	Inclinometer Fixing & Instrucmentation	China Railway 18th Bureau Group WLL	-	Lusail	15/02/20 21	-	12	-	-
401	MASW PCG	-	-	-	-	-	-	-	-
402	MASW 309	QBC	-	Doha South	20/02/20 21	27/02/20 21	-	-	-
403	Dismtg, Dmotn. etc of Pump Station A	Al Qaryan Group	Kahrama a	Wajba	-	-	-	-	-
404	Dismtg, Dmotn. etc of Pump Station A	Al Qaryan Group	Kahrama a	Doha South	-	-	-	-	-
405	Dismtg, Dmotn. etc of Pump Station A	Al Qaryan Group	Kahrama a	Sailiya	-	-	-	-	-
406	G+1 Villa	Badria Kafood	Private	Al Khisa	-	-	2	1x10.0;1x5.0	15
407	Grouting of boreholes	Powerchina Guizhou Engg. Co. Ltd	-	Al Kharsaah	-	-	-	-	-



408	18 Villa's	CRCC	QDC	Gewan Island	22/02/20 21	-	8	8x20.0	-
409	G+1 Villa	Mr Ali	Private	Rawdat Al Hamama	-	-	2	2x15.0	30
410	Slope Stability for Rock cut	Petroserve Ltd	Ashghal	Al Maider	22/02/20 21	23/02/20 21	-	-	-
411	G+1 Villa	Badria Kafood	Private	Al Asiri	04/03/20 21	06/03/20 21	2	1x10.0;1x5.0	15
412	G+1 Villa	Badria Kafood	Private	Al Asiri	05/03/20 21	07/03/20 21	2	1x10.0;1x5.0	15
413	G+1 Villa	Badria Kafood	Private	Al Thumama	05/03/20 21	07/03/20 21	2	1x10.0;1x5.0	15
414	G+1 Villa	Badria Kafood	Private	Ain Khalid	06/03/20 21	08/03/20 21	2	1x10.0;1x5.0	15
415	G+1 Villa	Badria Kafood	Private	Rawdat Al Hamama	07/03/20 21	08/03/20 21	2	1x10.0;1x5.0	15
416	G+1 Villa	Badria Kafood	Private	Umm Salal Ali	07/03/20 21	09/03/20 21	2	1x10.0;1x5.0	15
417	Road & Infrastructure Package 9	DC & QBEC JV	Ashghal	Al Meshaf	09/03/20 21	26/03/20 21	23	17x24;6x12.0	481
418	Wakra & Wukair Drainage Tunnel (D&B)	HBK Midmac PORR	Ashghal	Al Wukair - Al Wakra	13/03/20 21	11/05/20 21	30	3x55;14x60;13x65	1850
419	DBOM IIWWTW Phase 1	Larsen & Tourbo Ltd	Ashghal	Industrial Area	21/03/20 21	09/04/20 21	26	3x20;18x10;5x6	270
420	Roads & Inf. South of Meshaf Pkg. 8	Al Tawfeeq	Ashghal	Al Meshaf	17/03/20 21	16/06/20 21	6	<u>21-26x6</u>	137
421	Diagraphy Drilling (Geophysical)	CRCC	-	Gewan Island	25/03/20 21	29/03/20 21	20	20x15.0	300
422	Upgrade of Wakra New Road	Boom Construction Company	-	Al Wakra	26/03/20 21	28/03/20 21	2	1x10;1x5.0	15
423	Roads & Infrastructure Pkg. 3	Galfar Al Misnad Engg. & Contg. WLL	Ashghal	Al Wajba East	14/04/20 21	05/05/20 21	10	6x20;4x10	160
424	G+1 Villa	Badria Kafood	Private	Al Wakrah	12/04/20 21	13/04/20 21	2	1x10.0;1x5.0	15
425	New Cooling Water System for NGL	Trags	QP	MIC, Masieed	13/04/20 21	15/04/20 21	2	2x6.0	12
426	G+1 Villa	Tarif Qasas	Private	West Bay, Lagoon	20/04/20 21	25/04/20 21	3	3x15.0	45
427	Gulf Course Hotel & Beach Club	China Railway 18th Bureau Group	-	Gewan Island	18/04/20 21	16/05/20 21	18	18x20.0	360
428	School Building	CDCT	Ashghal	Al Wukair	02/05/20 21	09/05/20 21	8	6x8.0; 2x10.0	68
429	La Plage South (LPS-1)	HBK Contracting Co. WLL	-	The Pearl	13/05/20 21	25/05/20 21	12	12x25.0	300



430				Ras Abu	05/05/20	23/05/20			
430	Geo-Environmental Project	Barq Group	QEWC	Fantas	21	21	11	11x8.0	88
431		GI Venture General		Al Udeid Air	20/05/20	26/05/20			
751	Earthing	Trading & Contg.	-	Base	21	21	6	1x35;1x40;4x3.0	87
432		Al Hattab Tradg, Contg &			27/05/20	29/05/20			
752	B+G+1+P Villa	Real Estate	-	Lusail	21	21	2	2x8.0	16
433					25/05/20	25/05/20			
.00	2B+G+2 NBN OFFICE	NICC	-	Abu Hamour	21	21	5	5x0.45	2.35
434				Rawdat Al	28/05/20	30/05/20			
	G+1 Villa	Badria Kafood	Private	Hamama	21	21	2	1x10;1x5	15
435				Onaiza & Al	27/05/20	05/05/20			
	Attenuation Tank	QBC	Ashghal	Markhiya	21	21	6	6x25.0	150
436		Al Hattab Tradg, Contg &		Madinat	15/06/20	17/06/20	_		
	B+G+2 Building	Real Estate	Private	Khalifa	21	21	2	2x8.0	16
437	0.41/11	5 1: 4 5		Rawdat Al	30/05/20	31/05/20	2	4 40 4 5	4.5
	G+1 Villa	Badria Kafood	Private	Hamama	21	21	2	1x10;1x5	15
438					20/07/20	27/05/20			
	Grouting	RLR JV	-	Lusail	21	21	-	<del>-</del>	-
439	0.41/11	5 1: 4 5		A 1 4 4	01/06/20	04/06/20	2	4 40 4 5	4.5
	G+1 Villa	Badria Kafood	Private	Al Khor	21	21	2	1x10;1x5	15
440	C.41/811-	De dita Kafa ad	D.:	Rawdat Al	05/06/20	11/06/20	2	4:40.4:5	45
	G+1 Villa	Badria Kafood	Private	Hamama	21	21	2	1x10;1x5	15
441	Canthina	NCC (National Contg. Co.		Madinat Ash	31/05/20	05/06/20 21	9	9x15.0	125
	Earthing	Ltd.)	-	Shamal	21 08/06/20	09/06/20	9	9X15.U	135
442	C+1.Villa	Dadria Kafaad	_	AlMaid	1 -		2	1×10-1×F	15
	G+1 Villa	Badria Kafood	-	Al Majd	21	21 09/06/20	2	1x10;1x5	15
443	Lusail Tower	CRCC	_	Lucail	06/06/20 21	21	2	2x12.0	24
	Lusaii Towei	CRCC	-	Lusail	10/06/20	11/06/20	2	2X12.0	24
444	Earthing	Al Tawfeeq	_	Al Wakra	21	21	4	4x4.0	16
	Editillig	Ai Tawleeq	-		10/06/20	13/06/20	4	4x4.0	10
445	G+1 Villa	Badria Kafood	Private	West Bay, Lagoon	21	21	2	1x10;1x5	15
	O+1 VIIIa	Petroltecnica	Filvate	Lagoon	13/06/20	20/06/20		1810,183	13
446	Environment Test	Environmental Services	_	MIC, Masieed	21	20/06/20	5	5x10.0	50
	Liviloiiiieit rest	Dukhan Engineering	_	Waterfront,	14/07/20	12/08/20	3	3×10.0	30
447	Residential Apartment Building	Services	_	Lusail	21	21	15	15x38.0	570
	Residential Apartment Ballania	Scrvices		Eddall	26/06/20	28/06/20	13	13,30.0	370
448	B+G+1 Villa	Khalid Ahmad	_	Al Daayen	20/00/20	21	2	1x10;1x15.0	25
	DIGIT VIIId	Gewan Mosque & Club	_	Ai Daayeii	05/07/20	11/07/20		1/10,1/13.0	23
449	Diagraphy & Grouting	House	_	Lusail	21	21	6	2x14;4x16	_
	Diagraphy & Grouting	House	-	Lusan	04/07/20	29/07/20	U	2/14,4/10	-
450	Porto Arabia Yatch Club	CRCC	_	Pearl Qatar	21	29/07/20	3	3x30.0	90
	i orto Arabia Tattii Ciub	CNCC		Rawdat	28/06/20	01/07/20	3	3,30.0	30
451	G+1 Villa	Badria Kafood	Private	Jahaniya	21	21	2	1x10;1x5	15



452	DCP & Plate Load Test	НВК	Ashghal	Umm Salal Mohammed	19/06/20 21	29/06/20 21			
	DCF & Flate Load Test	FIBR	Astigital	Monammed	01/07/20	05/07/20	-	-	
453	NCS Master Plan	ACT	Ashghal	Shamal	21	21	4	4x15.0	60
	ives muster rian	7.01	7131161141	Al Salata-Al	30/06/20	03/07/20	'	1713.0	
454	G+1 Villa	Badria Kafood	Private	Jadeed	21	21	2	1x10;1x5	15
					03/07/20	05/07/20			
455	G+1 Villa	Badria Kafood	Private	Al Meshaf	21	21	2	1x10;1x5	15
45.6		Redco Internation WLL			06/07/20	12/07/20			
456	Site 24 Lusail Bus Deport(Earthing)	Qatar	Ashghal	Lusail	21	21	4	4x10.0	40
457				Souda	06/07/20	15/07/20			
457	Woqod Petrol Station Cat. III	Woqod	Woqod	Nakheel	21	21	6	2x20;4x10; 6TP	60
458					07/07/20	09/07/20			
458	Private Villa	Mezab Contracting	Private	Markhiya	21	21	2	1x10;1x8.0	18
459					08/07/20	18/07/20			
459	B+G+5 Building	Al Badr Contracting	-	Messaimeer	21	21	5	2x15;3x10	60
460					12/06/20	15/06/20			
460	Earthing	CRCC	-	Lusail	21	21	3	3x10.0	30
461		Al Riyad Technical		Al Afza	10/07/20	10/07/20			
401	Analysis of GW & Soil	Services Co. WLL	-	Mesaieed	21	21	1	1x8.0	8
462		Hyundai Engineering &			07/07/20	13/07/20			
402	GPR	Cons. Co. WLL	-	Lusail, Qatar	21	21	-	-	-
463					11/07/20	13/07/20			
403	Generator Room at Health Center	Acontec engineering	Ashghal	Al Jumiliyah	21	21	2	2x8.0	16
464					05/08/20	08/08/20			
404	G+1 Villa	Badria Kafood	Private	Al Wakra	21	21	2	1x10;1x5	15
465				Wukair &	24/07/20	03/08/20			
403	Earthing	UCC Infraroad	Ashghal	Wakra	21	21	2	2x10.0	20
466					03/08/20	05/08/20			
400	G+1 Villa	Badria Kafood	Private	Al Thumama	21	21	2	1x10;1x5	15
467		International Heavy			27/07/20	31/07/20			
107	Dissipation Test	Equipment Trans.	-	Al Khor	21	21	5 TP	5 TP	
468					03/08/20	05/08/20			
	G+1 Villa	Badria Kafood	Private	Al Khor	21	21	2	1x10;1x5	15
469		Development Company			02/08/20	24/08/20	_	2x20;1x21;3x22; 2x27	
	Earthing for Baladna	for Roadworks	Ashghal	Al Khor	21	21	8	-, ,-	181
470		Al Riyad Technical		1	05/08/20	08/08/20			
	Groundwater & Soil Analysis	Services Co. WLL	QP	Mesaieed	21	21	1	1x8.0	8
471				Rawdat Al	09/08/20	11/08/20			
	G+1 Villa	Badria Kafood	Private	Hamama	21	21	2	1x10;1x5	15
472			1	l	09/08/20	12/08/20			
	G+1 Villa	Md Jassim Al Haddad	Private	Hilal	21	21	3	3x10.0	30
473	Callian and Analysis	Redco Internation WLL	A alle a le col		30/08/20	30/08/20			
	Settlement Analysis	Qatar	Ashghal	Lusail	21	21	-	-	-





474		Sadeen Global for General			13/08/20	19/08/20			
4/4	G+1 Beach Villa	Contg Co	Private	Al Jasasiya	21	21	3	1x15;2x10.0	35
475				Rawdat Al	22/08/20	24/08/20			
4/3	G+1 Villa	Badria Kafood	Private	Hamama	21	21	2	1x10;1x5	15
476		Redco Internation WLL		GWC Logistic	25/08/20	28/08/20			
470	Geo-Environmental Project	Qatar	Ashghal	Park	21	21	2	-	-
477					25/08/20	30/08/20			
4//	Water Table reading 7 days	CCC	-	HIA	21	21	2	2x15.0	30
478					28/08/20	01/09/20			
476	Khalfan Villa	GND Metal Company	Private	Umm Gern	21	21	3	3x10.0	30
479					28/08/20	05/09/20			
473	Earthing C-312	AAES	-	-	21	21	5	5x20.0	100
480		PORR Qatar Construction		Ras Abu	02/09/20	11/09/20		1x15;3x12;4x7;1x9.5;1x5	
400	Design & Const. of Walkway free zone	WLL	Ashghal	Fantas	21	21	10	1x13,3x12,4x7,1x9.3,1x3	93.5
481				Al Mearad &	04/09/20	05/01/20			
401	Roads & Infrastructure Pkg.3	Petroserve Ltd	Ashghal	Muaither	21	21	-	-	-
482				Umm Al	02/09/20	05/09/20		<u>-</u>	
402	B+G+1+Ph Villa	Sultan Contracting	Private	Seneem	21	21	2	2x10.0	20

# LABORATORY APPROVAL



# CERTIFICATE OF CONFORMITY FROM MINISTRY OF MUNICIPALITY AND ENVIRONMENT



## مختبرات الدوحة الفنية



## REGISTRATION CERTIFICATE

شهادة تسجيل مختبر خاص

وفقاً للائحة الصادرة بقرار وزير البلدية والبيئة رقم (٣٥٦) لسنة ٢٠١٧م According to the Ministerial Decree No. (356)/2017

No: RL017 -19

Date of Issue:

CERTIFICAT

REGISTRATION

25/10/2022

تاريخ اصدار الشهادة:

Date of Expiry:

24/10/2023

الصلاحية حتى:

Lab Name:

مختبرات الدوحة الفنية

**Doha Technical Laboratories** 

اسم المختير:

بناية ٦٢، شارع ٣٥٧، منطقة ٩٢، مدينة

مسيعيد الصناعية، ص.ب: ٢٠٤٦٢،

مسيعيد - قطر

Building 62, Street 357, Zone 92,

Mesaieed Industrial City, P.O.Box:40462, Mesaieed-Qatar

CR No:

Address:

43659

رقم السجل التجارى:

Activity:

Testing (Material, Geotechnical)

النشاط:

العنوان:

Scope of Registration: Attached Scope of accreditation No:

5880.01

5880.02

مجال التسجيل: مرفق مجال الاعتماد شهادة رقم:

5880.03

Notes:

QS has no any responsibility for poor performance by this lab during the validity period.
 This certificate will remain valid for the period specified, subject to compliance with the Technical Regulations.

3. This certificate is invalid without the attached scope of accreditation

3. It is important to apply two months before expiry date of validity for renewal of this conformity certificate.

4. The required fee for this certificate has been stated according to the decision No. (112)/2019

Head of CC Section

Authorized by:

PRESEDENT, QGOS



# مختبرات الدوحة الفنية





Registration and Commercial Licenses Department

مستخرج ببعض بيانات السجل التجارب

إدارة التسجيل والتراخيص التجارية

تاريخ الطباعة: 2022/10/13



رقِم السجل التجارب: 43659 (قم التسجيل الضريبي: 5000829689

الأسم التجارب: مؤسسة مختبرات الدوحة الفنية السمة التجارية: تاريخ انشاء السجل: 19/10/2009

تاريخ انشاء السجل: 19/10/2009 تاريخ انتهاء السجل: 17/10/2023 الشكل القانونت: وراس المال: والشكل القانونت: مؤسسة فردية المنشأة: قطر عالم السجل: نشط والشطة: قطر

عدد الفروع: 1

معلومات الاتصال

صندوق البريد: أرقام الاتصال: +974

#### المالك

الجنسية	رقم السجل	رقم الإثبات	الأسم
قطر		29463402538	محمد عبدالحميد محمدطيب هاشم
			مصطفوي

#### المدراء (المخولون بالتوقيع)

الصفة (الصلاحية)	الجنسية	رقم السجل	رقم الإثبات	الأسم
طالحيات كاملة ومطاقة - مدير	قطر		29463402538	محمد عبدالحميد محمدطيب هاشم
ة الشجيل والقراحين القجارية والتجارية المتجارة والمساحة	كورة اعلاه سجلت لحين	رقم السجل: 43659 QATAR CHAI قطر بان المنشاة المذ	41.6	تش



# مختبرات الدوحة الفنية



Registration and Commercial Licenses Department

وزارة الاقتصاد والتجارة Ministry of Economy and Commerce

ادارة التسحيل والتراخيص التجارية

Commercial Registration Data



Issue Date: 13/10/2022

Commercial Reg. No.:

43659

Tax Reg. No.:

5000829689

Trade Name:

Doha Technical

Trade Type:

Creation Date:

Laboratories Corporation 19/10/2009

**Expiry Date:** 

17/10/2023

Legal Form:

Individual Foundation

Capital:

Commercial Reg. Status:

Active

Firm Nationality:

QATAR

No. of Branches:

**Contact Information** 

Mail Box: Email:

Contacts Numbers:

+974

#### Owner

Name	Document No	CR No	Nationality
MOHAMMED ABDULHAMEED M H MOSTAFAWI	29463402538		QATAR

#### Managers (Authorized Signatories)

Name	Document No	CR No	Nationality	Designation (Authority)
MOHAMMED ABDULHAMEED M H MOSTAFAWI	29463402538	Rillie	QATAR	Manager - Full and Absolute Authority

CR No: 43659

غــرفـــة قـطــر QATAR CHAMBER

تشهد غرفة تجارة وصناعة قطربآن المنشاة المذكورة اعلاه سجلك

Qatar Chamber certifies that the above mentioned establishment has been registered



# مختبرات الدوحة الفنية

تاريخ الطباعة: 2022/10/30 صفحة رقم: No 1 of 1



Registration and Commercial Licenses Department

سوريا

نموخج ختم المنشأة التجارية :

وزارة التجارة والصناعة Ministry of Commerce and Industry

إدارة التسجيل والتراخيص التجاربة

#### رخصة تجارية



رقم الرخصة: 55867 تاريخ اصدار الرخصة: 55867 الأسم التجارب: مؤسسة مختبرات الدوحة الفنية تاريخ انتهاء الرخصة: 2023/11/23 نوع المنشأة التجاربة: مؤسسة فردية رقم السجل التجارب: 43659 السمة التجاربة:

#### بيانات المدير المسؤول :

اسم المدير المسئول: احمد زياد هندت رقم الإثبات: 27676000328 جنسية المدير المسئول: **بيانات الموقع :** i

يبانات الموقع : تصنيف الموقع: تجارب

تصنيف الموقع: تجارب عقار رقم: 56 نوع الموقع: مكتب تجارب رقم الدور/ الوحدة: المنطقة: 92 مسيعيد اسم مالك العقار: الاقتصادية قطر) الشارع: وادب المرخية نوع الرخصة :

الشارع: واد<sup>ى</sup> المرخية نوع الرخصة : رقم الشارع : 357 وصف العنوان : **الأنشطة التجاربة :** 

إسم النشاط	رقم النشاط
قياس نسب نقاوة و تلوث الهواء	7120015
اعمال فحص واختبار مواد البناء	7120005
خدمات فحص التربة	2001391

إسم النشاط	رقم النشاط
مختبر تحليل المياه	7120002
التجارة في استيراد مواد كيماوية لأعمال البناء	4669902
التجارة في الادوات المعملية	4773282
التجارة في اجهزة فحص التربه (بواسطة الأشعة)	1000157





#### مختبرات الدوحة الفنية





Leading & Authorized Translators Since 1992

#### STATE OF OATAR

#### Ministry of Commerce and Industry Registration and Commercial Licenses Department

#### COMMERCIAL LICENSE

Date of Printing: 30/10/2022, Page No.: 1 of 1

Permit No.

65867

Date of Issue

: 18/11/2014

Commercial Name

: Doha Technical Laboratories Est.

Date of Expiry

: 23/11/2023

Type of Firm

: Individual Establishment

CR Number

: 43659

Commercial Feature

DETAILS OF MANAGER IN-CHARGE:

: Ahmed Zeyad Hindi

Nationality

· Svria

Identity Card No.: : 27676000328 LOCATION DETAILS:

Commercial Establishment Seal Model:

Classification

Commercial

Type

Commercial Office

Area

92 Mesaieed

Street

: Wadi Al Markhiya

Street No.

357

Building No.

Floor /Unit No.

**Building Owner** 

: The State of Qatar - Manateq - Economic Zones Company-Qatar

Permit Type

Address

No.	NAME OF ACTIVITY
7120002	Water analysis lab
4669902	Trading of importing chemicals for construction work
4773282	Trading of laboratory instruments
1000157	Trading of soil testing equipment (by rays)

No.	NAME OF ACTIVITY
7120015	Measurement of air purity and pollution
7120005	Building materials inspection and testing
2001391	Soil testing services

Seal & Sianature

Ministry of Commerce & Industry

Director/ Registration and Commercial Licenses Dep

Tel: 44367755 P.O.Box: 15702

تليفون : ٥٥/٣١٧٤٥ ـ ٤٤١٨١٩٩ . رأس المال: ٤٥٠،٠٠٠ ـ رقم العضوية : ٣/٠٣٦١ . س.ت: ١١٤٧١ . ص.ب: ١٥٧٠٢ . الدوحة - دولـة قطر

2 44367755 - 4418 1990 Capital: 450,000 Membership No. 03/03621 C.R No. 11471 P.O.Box: 15702, Doha, State of Qatar 🔲 33411148 - 33411150 - 33411153 🙉 alhayikitranslation@gmail.com, hayiki4u@gmail.com 🌐 www.alhayikitranslation.com





التوقيع	المقوضين Authorizers	رقم الوثيقة
20	محمد عبدالحميد محمدطيب هاشم مصطفوى MOHAMMED MOSTAFAWI	29463402538
,		
STATE OF STATE		
ards 1	ا عد البطاقات 1 / Instruction	245



# مختبرات الدوحة الفنية





#### بطاقة ضريبية - TAX CARD

The General Tax Authority of Qatar certifies that the entity is registered as per the following details:

تشهد الهيئة العامة للضرائب في دولة قطر أن الجهة أدناه مسجلة حسب البيانات التالية:

**TIN Number** 5000829689 رقم التعريف الضريبى مؤسسة مختبرات الدوحة الفنية إسم المكلف: Taxpayer Name: **Doha Technical Laboratories Corporation** Commercial رقم السجل التجاري القطري 43659 Registration Number :المبنى :Building منطقة: Zone: 92 العنوان Address شارع: وادى المرخية :Street (المركز الرئيسي): [Headquarter]: قطر - Qatar النشاط الرئيسي: Main Activity: التجارة في اجهزة فحص التربه (بواسطة الأشعة) -1000157-Trading in soil-testing devices (by rays) الشكل القانوني؛ مؤسسة فردية Legal Form:

Activity Commencement 27/03/2005 تاريخ بدئ النشاط؛ 27/03/2005

Number of Branches: 1 Registered taxes :

**Individual Institution** 

الضريبة على الدخل مسجل - REGISTERED - 27/03/2005



هذه الوثيقة مستخرجة من النظام الآلي و ليس من الضروري الثوقيع عليها

This is a system generated document and does not require to be signed.



مختبرات الدوحة الفنية

# **ASHGHAL LISTING**



### مختبرات الدوحة الفنية

05/06/2023 12:24:01 PM

هيئــة الأشغــال العامـــة **Public Works Authority** 

ج س - Communication Circular No -458 - QSD تعميم تواصل رقم -458 - QSD - ج س



#### تعميم تواصل لسنة 2023

قائمة أشغال للاختبارات المعتمدة لدى المختبرات المحايدة رقم 2023/5

#### Communication Circular, 2023

#### Ashghal List of Approved Tests in Independent Labs No.5/2023

Dear All,

With reference to Circular No. 35 of 2020 and periodical assessment carried out by the laboratory control team of the Quality and Safety Department, you will find attached the updated list of approved tests, which used in Public Works Authority (Ashghal) projects.

تحبة طيبة وبعد،

بناءً على التعميم رقم 35 لسنة 2020 والتقييم الدوري لفريق مراقبة المختبرات النابع لإدارة الجودة والسلامة، نرفق لسيادتكم تحديث قائمة الاختبارات المعتمدة في مشاريع هيئة الأشغال العامة.

The basic updates can be summarized as

أهم التحديثات التي نمت هي:

- 1- New environmental tests were approved الماق اختبارات بينية جديدة لنطاق اختبارات الماقة اختبارات بينية جديدة لنطاق اختبارات accredited for ISO 17025 in this tests.
  - for "Element Doha LLC" after being يعد حصوله على مختبر " اليمنت الدوحة ذ.م.م " بعد حصوله على اعتماد 17025 الى هذا الاختبار.
- 2- Based on the suspended operations, (CALIBRATION LAB WLL) has been suspended from Ashghal approved laboratories list.
- 2- نم تعليق مختبر (CALIBRATION LAB WLL) من قائمة مختبرات أشغال المعتمدة وذلك بناء على تعلبق أعمال المختبر،
- 3- Based on the lack of testing, Arab Center for بناة عدم وجود اختبارات في مختبر الموقع النابع لمركز north (P007 C7 P2)) has been, removed from approved site laboratories list.
  - العربي للدراسات الهندسية لمشروع (البستان طريق) Engineering Studies site lab in Project: Design and Construction of Al Bustan street إنم إزالة مختبر الموقع من P7007 C7 P2 قائمة مختبرات المواقع.



# Certificate of Accreditation



# مختبرات الدوحة الفنية



# **Accredited Laboratory**

A2LA has accredited

#### DOHA TECHNICAL LABORATORIES

Mesaieed, Qatar

for technical competence in the field of

#### Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system

(refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of December 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5880.01
Valid to November 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.



# مختبرات الدوحة الفنية



# **Accredited Laboratory**

A2LA has accredited

#### DOHA TECHNICAL LABORATORIES

Mesaieed, Qatar

for technical competence in the field of

#### Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of December 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5880.03
Valid to November 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.



# مختبرات الدوحة الفنية



# **Accredited Laboratory**

A2LA has accredited

#### DOHA TECHNICAL LABORATORIES

Mesaieed, Qatar

for technical competence in the field of

#### Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of December 2021.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 5880.02

Valid to November 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.









Joint ISO-ILAC-IAF Communique on the Management Systems Requirements of ISO/IEC 17025, General Requirements for the competence of testing and calibration laboratories

A laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.

ISO Acting Secretary General

ILAC Chair

Much Malugorst Wilsson

IAF Chair

April 2017





# **CERTIFICATE**

This is to Certify that the Management System of

#### **DOHA TECHNICAL LABORATORIES**

MESAIEED INDUSTRIAL CITY, P.O. BOX 40462, MESAIEED, QATAR

has been audited and found to comply with the requirements of:

# ISO 14001:2015 (Environmental Management System)

For the Scope of activities described below:

GEOTECHNICAL INVESTIGATION, SOIL AND MATERIAL TESTING OF CONSTRUCTION AND CIVIL ENGINEERING MATERIALS, FIELD TESTING AND NON- DESTRUCTIVE TESTING, TOPOGRAPHY AND GEOPHYSICAL SURVEYS OF SITES, ENVIRONMENTAL IMPACT ASSESSMENT AND SALE & SERVICE OF TEST EQUIPMENT

Certificate No.: QA93311B

Date of initial registration

Date of this Certificate

Surv. audit on or before/ Certificate expiry

Recertification Due

22 June 2021

20 April 2023

21 June 2024

21 June 2024

Validity of this certificate is subject to successful completion of surveillance audit on or before due date, in case surveillance audit not conducted this certificate shall be suspended/cancelled.



Director

This Certificate is the property of LMS Certification Limited and shall be returned immediately when demanded





LMS Certification Limited Labrynth Business Centre, 43 Middle Hill Gate, Stockport, Great Manchester, England-SK1 3DG Phone: 44 208 935 5094 Company No.: 11029176

LMS/FM/00)/G/RE



# CERTIFICATE

This is to Certify that the Management System of

#### DOHA TECHNICAL LABORATORIES

MESAIEED INDUSTRIAL CITY, P.O. BOX 40462, MESAIEED, QATAR

has been audited and found to comply with the requirements of:

#### ISO 45001:2018 (Occupational Health & Safety Management System)

For the Scope of activities described below:

GEOTECHNICAL INVESTIGATION, SOIL AND MATERIAL TESTING OF CONSTRUCTION AND CIVIL ENGINEERING MATERIALS, FIELD TESTING AND NON- DESTRUCTIVE TESTING, TOPOGRAPHY AND GEOPHYSICAL SURVEYS OF SITES, ENVIRONMENTAL IMPACT ASSESSMENT AND SALE & SERVICE OF TEST EQUIPMENT

Certificate No.: QA93311C-1

Date of initial registration

Date of this Certificate Surv. audit on or before/ Certificate expiry

Recertification Due

22 June 2021

20 April 2023

21 June 2024

21 June 2024



Validity of this certificate is subject to successful completion of surveillance audit on or before due date, in case surveillance audit not conducted this certificate shall be suspended/cancelled.

roperty of LMS Certification Limited and shall be returned immediately when demanded





LMS Certification Limited Labrynth Business Centre, 43 Middle Hill Gate, Stockport, Great Manchester, England-SK1 3DG Phone : +44 208 935 5094 Company No.: 11029176





# Scope of Accreditation



<b>Test Description:</b>	<b>Test Method:</b>
Aggregates:	
Method of Test for Specific Gravity of Soils	AASHTO T 100
Test Method for Uncompacted Voids Content of Fine	AASHTO T 304
Aggregate	
Test Method for Uncompacted Void Content of Coarse	AASHTO T 326
Aggregate (As Influenced by Particle Shape, Surface	
Texture and Grading)	
Test Method for Bulk Density ("Unit Weight") and Voids	ASTM C29/C29M
in Aggregate	
Test Method for Materials Finer Than 75um (No. 200)	ASTM C117
Sieve in Mineral Aggregate by Washing	
Test Method for Lightweight Particles in Aggregate	ASTM C123/C123M
Test Method for Relative Density (Specific Gravity) and	ASTM C127
Absorption of Coarse Aggregate	
Test Method for Relative Density (Specific Gravity) and	ASTM C128
Absorption of Fine Aggregates	
Test Method for Resistance to Degradation of Small-Size	ASTM C131/C131M
Coarse Aggregate by Abrasion and Impact in the Los	
Angeles Machine	
Test Method for Sieve Analysis of Fine and Coarse	ASTM C136/C136M <sup>1</sup>
Aggregates	A CT M C1 42/C1 42 M
Test Method for Clay Lumps & Friable Particles in	ASTM C142/C142M
Aggregate  Test Method for Posistance to Dogradation of Large Size	ASTM C535
Test Method for Resistance to Degradation of Large Size Coarse Aggregate by Abrasion & Impact in Los Angeles	ASTM C333
Machine	
Standard Practice for Reducing Samples of Aggregates to	ASTM C702/C702M
Testing Size	11511VI C / 02/ C / 02/VI
Test Method for Uncompacted Void Content of Fine	ASTM C1252
Aggregate (As Influenced by Particle Shape, Surface	
Texture and Grading)	
Standard Practice for sampling aggregates	ASTM D75 / D75M
Test Method for Sieve Analysis of Mineral Filler for	ASTM D546
Asphalt Paving Mixtures	
Test Description:	Test Method:
Test Method for Durability Index of Aggregate	ASTM D3744/D3744M
Test Method for Flat Particles, Elongated Particles, or Flat	ASTM D4791
and Elongated Particles in Coarse Aggregate	
Test Method for Determination the Percentage of	ASTM D5821
Fractured Particles in Coarse Aggregate	
Test Method for Resistance of Coarse Aggregate to	ASTM D6928
Degradation by Abrasion in the Micro-Deval Apparatus	
Test Method for Determination of Relative Density and	ASTM D7370/D7370M
Absorption	
of Fine, Coarse and Blended Aggregate Using Combined	
Vacuum Saturation and Rapid Submersion	
Test Method for Resistance of Fine Aggregate to	ASTM D7428



Degradation by Abrasion in the Micro-Deval Apparatus	
Testing Aggregate (Methods of Determination of Density)	BS 812-2
Methods for Sampling of Aggregates	BS 812-102
Test Method for Determination of Particle Size	BS 812-103.1, Test 7.2
Distribution of Aggregates (Wet Sieving Method)	BS 012 103.1, 1est 7.2
Test Method for Determination of Particle Size	BS 812-103.1, Test 7.3
Distribution of Aggregates (Dry Sieving Method)	, , , ,
Test Method for Determination of Particle Shape -	BS 812-105.1
Flakiness Index	
Test Method for Determination of Particle Shape -	BS 812-105.2
Elongation Index of Coarse Aggregate	
Test Method for Determination of Moisture Content of	BS 812-109 Sec.6
Aggregates	
Test Method for Determination of Aggregate Crushing	BS 812-110
Value (ACV)	
Testing Aggregate (Method for Determination Ten	BS 812-111, Tests 7.1 and
Percent Fines Value (TFV) (Dry and Soaking)	7.2
Testing Aggregate (Method for Determination Aggregate Impact Value)	BS 812-112
Methods for Sampling of Aggregates	BS EN 932-1
Methods for Reducing Laboratory Sample	BS EN 932-2
Tests for Geometrical Properties of Aggregates	BS EN 933-1
(Determination of Particle Size Distribution - Sieving	22 21 ( ) 66 1
Method)	
Tests for Geometrical Properties of Aggregates	BS EN 933-3
(Determination of Particle Shape - Flakiness Index)	
Tests for Geometrical Properties of Aggregates	BS EN 933-4
(Determination of Particle Shape - Shape Index)	
Test Method for Determination of Shell Content-	BS EN 933-7
Percentage of Shell in Coarse Aggregates	
Test Method for Assessment of Fines - Sand Equivalent	BS EN 933-8:2012+A1:2015
Test	
Classification Test for Constituent of Coarse Recycled	BS EN 933-11
Aggregates	DG FN 1005 1
Test Method for Determination of the Resistance to Wear	BS EN 1097-1
of Coarse Aggregates (Micro-Deval)	
Tests for Mechanical and Physical Properties of	BS EN 1097-2
Aggregates. Methods for the Determination of Resistance	
to Fragmentation (Los Angeles Test)	
Test Description:	<b>Test Method:</b>
Test Method for Determination of Loose Bulk Density	BS EN 1097-3
and Voids of	
Aggregate	
Test Method for Determination of Particle Density and	BS EN 1097-6, Tests 7, 8
Water Absorption (Coarse / Fine Aggregate)	and 9



Test Method for Determination of the Compressive	BS EN 1926 Annex A
Strength of Armourstone	DC EN 12202 2 CL (
Test Method for Determination of the Aggregate /Rock Mass Distribution of Light and Heavy Grading	BS EN 13383-2: Cl 6
Test Method for Determination of the Percentage of	BS EN 13383-2: C1 7
Pieces of Armourstone with a Length-to-Thickness Ratio	
Greater than 3	
Test Method for Determination of Particle Density and	BS EN 13383-2: Cl 8
Water Absorption of Armourstone	
Test Method for Determination of Particle Size	BS EN 13383-2: Cl 5
Distribution of Coarse Gradings	
Test Method for Splitting Tensile Strength of Intact Rock	ASTM D3967
Core Specimen.	
Cementitious	
Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	ASTM C187
Test Method for Density of Hydraulic Cement	ASTM C188
Test Methods for Time of Setting of Hydraulic Cement by	ASTM C191
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Test Method for Strength Activity Index of Silica Fume	ASTM C311/C311M, ASTM
	C109/C109M
Test Method for Sampling and Testing Fly Ash or Natural	ASTM C311/C311M Cl 19
Pozzolans for use in Portland-Cement Concrete - Test	
Method for Moisture Content of Silica Fume	ACTM C420
Test Method for Fineness of Hydraulic Cement by the 45	ASTM C430
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Concrete (Flow Cone Method)	ASTM C939/C939WI
Test Method for Expansion and Bleeding of Freshly	ASTM C940
Mixed Grouts for Preplaced-Aggregate Concrete in the	ASTIVI COAG
Laboratory	
Compressive Strength of (50mm) Cube of Grout Mix	ASTM C942, ASTM C109
Test Method for Density of Silica Fume	ASTM C1240 Cl 12
Test Method for Bulk Density of Silica Fume	ASTM C1240 Cl 19
Method of Testing Cement (Determination of	BS EN 196-1
Compressive Strength)	
Test Method for Standard Consistence of Cement	BS EN 196-3: Cl. 5
Test method for Initial & Final Setting Time Vicat Needle	BS EN 196-3C1-6
Method of Testing Cement (Soundness)	BS EN 196-3 Cl 7
Methods of Testing Cement - Determination of Fineness -	BS EN 196-6, Test 4
Test Method for Fineness of Cement by (Air Blaine	DS EN 170-0, 16814
Permeability) Apparatus	
Test Method for Density of Cement	BS EN 196-6 Annex NC
Test Method for Density of GGBS	BS EN 15167-1Cl 5.5 G, BS
1255 Interior for Delibity of Godo	EN
	196-6 Annex NC
Taking and Preparing Samples of Cement	BS EN 196-7
Test Description:	Test Method:
1 cot 2 coeription.	



Grout for Prestressing Tendons. Test methods-Fluidity of grout by Flow cone method	BS EN 445 (Cl 4.3.1)
Test Method for Determination of Density of Grout for	BS EN 445 (Cl 4.7)
Prestressing Tendon By Mud Balance Apparatus	DG EN 450 1 C1 5 2 2
Test method for Strength Activity Index of Pulverized Fly Ash	BS EN 450-1 Cl 5.3.2, BS EN 196-1
Test method for Soundness of Pulverized Fly Ash	BS EN 450-1 Cl 5.3.3,
Test medica for Soundiess of Furverized Fly Fish	BS EN 196-3 C1 7
Test Method for Initial Setting Time of (PFA)	BS EN 450-1 Cl 5.3.5, BS EN 196-3 Cl 7
Test Method for Fineness by Wet Sieving	BS EN 451-2
Ground Granulated Blast Furnace Slag for Use in	BS EN 15167-1(Annex A)
Concrete, Mortar and Grout - Definitions, Specifications and Conformity Criteria - Test Method of Moisture Content of GGBS	BS EN 13107-1(Allilex A)
Test Method for Initial Setting Time of GGBS	BS EN 15167-1 Cl 5.3.2.2,
	BS EN 196-3 Cl 6.2 & 6.3
Test Method for Strength Activity Index of GGBS	BS EN 15167-1 Cl 5.3.2.3,
3	BS EN 196-1
Concrete:	
Standard Practice for Making and Curing Concrete Test Specimens in The Field	ASTM C31/C31M <sup>1</sup>
Test Method for Compressive Strength of Cylindrical Concrete	ASTM C39/C39M
Test Method for Obtaining and Testing Drilled Cores and Sewed Beams of Concrete	ASTM C42/C42M
Test Method for Absorption and Bulk Specific Gravity of	ASTM C97/C97M
Dimension Stone	ABTWI COTTESTIVI
Density (Unit Weight) of Freshly Mixed Concrete	ASTM C138/C138M
Test Method for Slump of Hydraulic Cement Concrete	ASTM C143/C143M
Standard Practice for Sampling Freshly Mixed Concrete	ASTM C172/C172M
Air Content of Freshly Mixed Concrete by the Pressure Method	ASTM C231/C231M <sup>1</sup>
Test Method for Bleeding of Concrete	ASTM C232/C232M
Standard Practice for Capping of Cylindrical Specimens <sup>1</sup>	ASTM C617/617M
Concrete Test Method for Density, Absorption and Voids in	ASTM C642
Hardened Concrete	ASTWI CU12
Test Method for Temperature of Freshly Mixed Hydraulic	ASTM C1064/C1064M
- Cement Concrete	
Standard Practice for Use of Unbounded Caps in	ASTM C1231/C1231M
Determination of	
Compressive Strength of Hardened Cylindrical Concrete	
Specimen	
Test Method for Self-Compacting Concrete by Slump Flow Test	ASTM C1611
Passing Ability for Self-Consolidating Concrete by J-Ring	ASTM C1621
	· ·



Test Method for Measurement of Bond Strength by Pull Off Protection And Repair of Concrete Structure	BS EN 1542
Testing Concrete - Method for Determination of Water Absorption	BS 1881-122
Concrete Cover Depth by Electromagnetic Cover Meter	BS 1881-204
Test Method for Initial Surface Absorption (ISAT) of	BS 1881-208
concrete	D3 1801-200
Straight Concrete and Clayware Cable Covers (Method of	BS 2484 Annex A
Test for Impact Resistance of Reinforced Concrete Cover)	20 2 10 1 1 mm 3 1 1 1
Test Description:	Test Method:
Tests for Thermal and Weathering Properties of Aggregates - Part 4: Determination of Drying Shrinkage	BS EN 1367-4
Testing Fresh Concrete (Sampling) - Sampling	BS EN 12350-1 <sup>1</sup>
Testing Fresh Concrete (Sampling) - Temperature Measurement	BS EN 12350-1 <sup>1</sup>
Testing Fresh Concrete (Slump Test)	BS EN 12350-2 <sup>1</sup>
Test Method for Concrete Consistency by flow table	BS EN 12350-5
apparatus	222112000
Test Method for Density (Unit Weight) of Freshly Mixed Concrete	BS EN 12350-6
Testing Fresh Concrete (Air Content – Pressure Methods)	BS EN 12350-7
Testing Fresh Concrete – Self Compacting Concrete – Slump- Flow Test	BS EN 12350-8
Testing Fresh Concrete- Self-Compacting Concrete – (V-Funnel Test)	BS EN 12350-9
Testing Fresh Concrete - Self-Compacting Concrete - (L Box Test)	BS EN 12350-10
Testing Fresh Concrete-Self-Compacting Concrete – (Sieve Segregation Test)	BS EN 12350-11
Testing Fresh Concrete- Self-Compacting Concrete – (J-Ring Test)	BS EN 12350-12
Testing Hardened Concrete (Measurement of Shape & Dimension)	BS EN 12390-1: <sup>1</sup>
Testing Hardened Concrete (Making and Curing Specimens for Strength Tests)	BS EN 12390-2: <sup>1</sup>
Testing Hardened Concrete - Compressive Strength of Test Specimen	BS EN 12390-3
Testing Hardened Concrete (Flexural Strength of Testing Specimen)	BS EN 12390-5
Test Method for Density (Unit Weight) of Freshly Mixed Concrete	BS EN 12350-6
Test Method for Density of Hardened Concrete	BS EN 12390-7 <sup>1</sup>
Testing Hardened Concrete (Depth of Penetration of	BS EN 12390-8
Water under Pressure) - Water Permeability of Hardened	DS EN 12370-0
Concrete	
Testing Concrete in Structures - Cored Specimen Taking,	BS EN 12504-1
Examining, and Testing in Compression	DS 211 1250 1 1



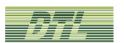
Transverse Strength of Terrazzo Tiles	BS EN 13748-1, Test 5.5
Water Absorption of Terrazzo Tiles	BS EN 13748-1, Test 5.8
Concrete Kerb Units - Requirements and Test Methods	BS EN 1340 Annex C
(Dimensions of Single Unit)	
Concrete Kerb Units - Requirements and Test Methods	BS EN 1340 Annex E
(Determination of Total Water Absorption)	
Test Method for Determination of Bending Strength of	BS EN 1340 Annex F
Kerb Unit	
Test Methods for Sampling and Testing Concrete	ASTM C140/C140M Cl 6
Masonry Units and Related Units (Measurement of	
Dimension)	
Test Methods for Sampling and Testing Concrete	ASTM C140/C140M C17
Masonry Units and Related Units (Compressive Strength)	
Test Methods for Sampling and Testing Concrete	ASTM C140/C140M C1 8
Masonry Units and Related Units (Measurement of Water	
Absorption)	
Test Methods for Sampling and Testing Concrete	ASTM C140/C140M C1 9.2
Masonry Units and Related Units (Moisture Content)	
Test Methods for Sampling and Testing Concrete	ASTM C140/C140M C1 9.3
Masonry Units and Related Units (Density)	
Test Method for Compressive Strength of Dimension	ASTM C170/C170M
Stone	
Test Method for Fundamental Transverse, Longitudinal,	ASTM C215
and Torsional Resonant Frequencies of Concrete	
<u> </u>	
Specimens	
=	Test Method:
Specimens	Test Method:  ASTM C403/C403M
Specimens  Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance	ASTM C403/C403M
Specimens  Test Description:  Test Method for Time of Setting of Concrete Mixture by	
Specimens  Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone	ASTM C403/C403M  ASTM C880/C880M
Specimens  Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay	ASTM C403/C403M
Specimens  Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19
Test Method for Time of Setting of Concrete Mixture by Penetration Resistance Test Method of Flexural Strength of Dimension Stone Test Method for Marsh Funnel Viscosity of Clay Construction Slurries Test Method for Compressive Strength of Concrete	ASTM C403/C403M  ASTM C880/C880M
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries Test Method for Compressive Strength of Concrete Masonry Units Test Method for Water Absorption of Masonry Units	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units  Method of Test for Masonry Unit (Determination of	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries Test Method for Compressive Strength of Concrete Masonry Units Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action) Test Method for Determination of Net and Gross Dry Density of Masonry Units Method of Test for Masonry Unit (Determination of Dimensions)	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  BS EN 772-16
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units  Method of Test for Masonry Unit (Determination of Dimensions)  Test Method for Full Water Absorption of Concrete	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  BS EN 772-16
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries Test Method for Compressive Strength of Concrete Masonry Units Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action) Test Method for Determination of Net and Gross Dry Density of Masonry Units Method of Test for Masonry Unit (Determination of Dimensions) Test Method for Full Water Absorption of Concrete Masonry Units	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  CML 9
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units  Method of Test for Masonry Unit (Determination of Dimensions)  Test Method for Full Water Absorption of Concrete Masonry Units  Precast Concrete Paving Blocks (Measurement	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  CML 9
Test Description:  Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units  Method of Test for Masonry Unit (Determination of Dimensions)  Test Method for Full Water Absorption of Concrete Masonry Units  Precast Concrete Paving Blocks (Measurement Dimensions and Plan Area)	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  BS EN 772-16  CML 9  BS 6717-1 Annex A
Test Method for Time of Setting of Concrete Mixture by Penetration Resistance  Test Method of Flexural Strength of Dimension Stone  Test Method for Marsh Funnel Viscosity of Clay Construction Slurries  Test Method for Compressive Strength of Concrete Masonry Units  Test Method for Water Absorption of Masonry Units (Aggregate Concrete Due to Capillary Action)  Test Method for Determination of Net and Gross Dry Density of Masonry Units  Method of Test for Masonry Unit (Determination of Dimensions)  Test Method for Full Water Absorption of Concrete Masonry Units  Precast Concrete Paving Blocks (Measurement Dimensions and Plan Area)  Precast Concrete Paving Blocks (Measurement of	ASTM C403/C403M  ASTM C880/C880M  ASTM D6910/D6910M-19  BS EN 772-1+A1  BS EN 772-11  BS EN 772-13  BS EN 772-16  CML 9  BS 6717-1 Annex A



Concrete Paving Blocks - Requirements and Test Methods (Determination of Water Absorption)	BS EN 1338: Annex E
(Determination of Water Absorption)  Test Method for Determination of Tangila Splitting	DC EN 1229 Amov E
Test Method for Determination of Tensile Splitting Strength of Concrete Paving Block	BS EN 1338 Annex F
Method for Determination of Unpolished Slip Resistance	BS EN 1338 Annex I
Value (USRV)	
Test Method for Measurement of Dimensions of Concrete	BS EN 1339 Annex C
Paving Flags	
Standard Test Method of Water Absorption of Precast	BS EN 1339 Annex E
Concrete Paving Flags	
Test Method for Determining Bending Strength and	BS EN 1339 Annex F
Breaking Load of Concrete Paving Flags	
Slip/Skid Resistance of Floor Tile Using Pendulum Tester	BS 7976-2 +A1
(PTV)	
Ceramic Floor and Wall Tiles - Modulus Rapture &	BS EN ISO 10545-4
Breaking Strength for Ceramic Tiles	
Test Method for the Determination of Resistance to Deep	BS EN ISO 10545-6
Abrasion for Unglazed Tiles	
Test Method for Metallic Fibre Concrete-Measuring the	BS EN 14721 +A1
Fibre Content in Fresh and Hardened Concrete	
Test Method for Compressive Strength of Young Sprayed	BS EN 14488-2
Concrete	
Scratch Hardness of Surface according to Mohs-Ceramic	BS 6431-13, EN 101
Floor and Wall Tiles	
Geotechnical	
Standard Test Method for Slake Durability of Shales and	ASTM D4644
Other Similar Weak Rocks	
Standard Test Method for Performing Laboratory Direct	ASTM D5607
Shear Strength Tests of Rock Specimens Under Constant	
Normal Force	
Test Method for Point Load Strength Index of Rock and	ASTM D5731
Application to Rock Strength Classification	
<b>Test Description:</b>	<b>Test Method:</b>
Uniaxial Compressive Strength of Intact Rock Core	ASTM D7012 <sup>£1</sup> (Method C)
Specimen	
Test Method for Field Measurement of Soil Resistivity	ASTM G57
Using the Wenner Four-Electrode Method	
Standard Test Methods for Cross Hole Seismic Testing	ASTM D4428D/4428M
Standard Practices for Preparing Rock Core as Cylindrical	ASTM D4543
Test Method for Ground Penetrating Radar Method for	ASTM D6432
Sub Surface Investigation	
Test Method for Compressive Strength and Elastic Moduli	ASTM D7012 E1 Method D
of	
Intact Rock Core Specimens Under Verifying States of	
Stress and Temperatures	
Standard Test Methods for Downhole Seismic Testing	ASTM D7400
Test Method for Determination of Infiltration Rate of Soil	BRE Digest 365
(Dissipation Test)	
Determination of Shear Strength by the Laboratory Vane	BS 1377-7, Test 3
2 3 3 3 3 3 3 3 3 3 3 3 4 4 1 5 4 1 5 4 1 6 1 5 4 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1	201011 1, 1000



Method	
Determination of Shear Strength by Direct Shear (Small	BS 1377-7 C1 4.5.4
Shear Box Apparatus)	
Test Method for Determination of Vertical Deformation	BS 1377-9 Cl 4.1 Only
and Strength Characteristics of Soil by Plate Loading Test	
Description of Soil and Rock	BS 5930 Sec. 6 Cl 33 & 36
Permeability by Constant Head Method	BS 1377-5, Test 5
Methods of Test for Soils for Civil Engineering Purposes -	· ·
In-Situ Tests (Cone Penetration Test)	BS 1377 9, 16st 3.5
Code of Practice for Ground Investigations (Falling Head	BS 5930 Cl 25.4
Permeability Test)	22 6960 31 261.
Field Determination of Permeability of Rock Masses by	BS 5930 Cl 25.5
Packer Test	
Geotechnical Investigation	BS 5930 Sec. 3
Code of Practice for Ground Investigations - Ground	BS 5930 C1 25
(Soil) Sampling	220,0000120
Code of Practice for Ground Investigations - Ground	BS 5930 Cl 26
Water Sampling	
Ground Water Level Measurement	BS 5930 Sec. 4 Cl 26
Undrained Triaxial Test without Pore Water Pressure	BS 1377-7 Sec. 8
Measurement	
Test Method for One Dimensional Consolidation	ASTM D2435/D2435M
Properties of Soils Using Incremental Loading	
Test Method for Prebored Pressuremeter Testing in Soils	ASTM D4719
Efficiency of a Production Well in Confined Aquifer from	ASTM D6034/ASTM D4050
a Constant Rate Pumping Test	
Test Methods for Ground Movement Monitoring Using	ASTM D6230
Inclinometer	
Test Method for Location of Utilities by Cable Locator	ASTM D6432
Standard Test methods for Laboratory determination of	ASTM D7625
Abrasiveness of Rock using the CERCHAR method	
Method for Installation of Piezometer	BS EN ISO 22475-1
Standard Penetration Test SPT (N) / Percussion	BS EN ISO 22476-3+A1
Geotechnical Investigation and Testing, Field Testing,	BS EN ISO 22476
Measuring While Drilling- Diagraphy Drilling	
Standard Test Method for Use of the Dynamic Cone	ASTM D6951/D6951M
Penetrometer in	
Shallow Pavement Applications	
Cavity Grouting	QCS 2014 Sec 29 Part CL. 6.6
Backfilling of Borehole	QCS 2014 Sec 3 Part 3
Backfilling of Borehole	Kahramaa Specification
Test Description:	Test Method:
Standard Test Method for Approximating the Shear	ASTM D8121/D8121M
Strength of Cohesive Soils by the Handheld Vane Shear	
Device	
Geotechnical Instrumentation for Monitoring Field	NCHRP 89
Performance -	
Strain Gauge	
Strain Gauge	



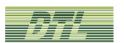
Suggested Method for Porosity/Density Determination of Rock Using Saturation and Buoyancy Techniques	ISRM Suggested Method Part
Topography Survey	Qatar Survey Manual
Settlement Marker	In House Procedure
	In House Procedure
Prism Target Monitoring  Bituminous	III House Flocedule
	A A GIVEN D. 20
Mixture Conditioning of Hot Mix Asphalt (HMA)	AASHTO R 30
Superpave Volumetric Design for Asphalt Mixture	AASHTO R 35
Reducing Samples of Hot Mix Asphalt (HMA) to Testing Size	AASHTO R 47
Test Method for Resistance of Compacted Hot Mix Asphalt (HMA) to Moisture-Induced Damage	AASHTO T 283
Test Method for Preparing and Determining the Density of Asphalt Mixture Specimens by Mean of the SuperPave Gyratory Compactor	AASHTO T 312
Test Method of Hamburg Wheel Track Testing for Compacted HMA	AASHTO T 324
Test Method for Determining the Interlayer Shear Strength (ISS) of Asphalt Pavement Layers	AASHTO TP 114
Sampling Bituminous Paving Mixture	ASTM D979/D979M
Test Method for Bulk Specific Gravity and Density of	ASTM D1188
Compacted Bituminous Mixture Using Coated Sample	
Test Method for Moisture or Volatile Distillates in Asphalt Mixtures	ASTM D1461
Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	ASTM D2041/D2041M
Test Method for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172M
Test Method for Bulk Specific gravity and density of Non- Absorptive compacted Asphalt mixtures	ASTM D2726/2726M
Test Method for Density of Bituminous Concrete in Place by Nuclear Method	ASTM D2950/D2950M
Estimating Application Rate and Residual Application Rate of Bituminous Distributors	ASTM D2995
Test Method for Percent Air Voids in Compacted Asphalt Mixtures	ASTM D3203/D3203M
Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549M
Test Method for Effect of Water on Bituminous Coated Aggregate by Boiling Water	ASTM D3625/D3625M
Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures	ASTM D4867/D4867M
Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing	ASTM D5361/D5361M
Test Method for Mechanical Size Analysis of Extracted Aggregate	ASTM D5444
Test Method for Resistance to Plastic Flow of Bituminous Mixture Using Marshall Apparatus (6 inch-Diameter Specimen)	ASTM D5581



Test Method for Determination of Drain down	ASTM D6390
Characteristics in Uncompacted Asphalt Mixture	
Test Description:	Test Method:
Test Method for Bulk Specific Gravity & Density of	ASTM D6752/D6752M
Compacted Asphalt Mixtures Using Automatic Vacuum	
Sealing Method	
Test Method for Maximum Specific Gravity and Density	ASTM D6857/D6857M
of Asphalt Mixtures Using Automatic Vacuum Sealing	
Method	
Test Method for Preparation and Determination of the	ASTM D6925
Relative	
Density of Asphalt Mix Specimens by Means of the	
Superpave Gyratory Compactor	
Standard Practice for Preparation of Asphalt Mixture	ASTM D6926
Specimens Using Marshall Apparatus	
Test Method for Marshall Stability and Flow of Asphalt	ASTM D6927
Mixtures	
Test Method for Indirect Tensile (IDT) Strength of	ASTM D6931
Asphalt Mixtures	
Standard Practice for Rapid Dying of Compacted Asphalt	ASTM D7227/D7227M
Specimens Using Vacuum Dying Apparatus	
Standard Practice for Moisture Conditioning Compacted	ASTM D7870/D7870M
Asphalt Mixture Specimen by Using Hydrostatic Pore	
Pressure	
Test Method for Measuring Surface Frictional Properties	ASTM E303
Using the British Pendulum Tester	
Test Method for Measuring the Longitudinal Profile of	ASTM E950/E950M
Traveled Surfaces with Accelerometer Established Inertial	
Profiling Reference	
Standard Practice for Simulating Vehicular Response to	ASTM E1170
Longitudinal Profiles of Traveled Surfaces	
Test Method for Measuring Rut-Depth of Pavement	ASTM E1703/E1703M
Surfaces Using a Straightedge.	
Standard Practice for Computing International Roughness	ASTM E1926
Index of Roads from Longitudinal Profile Measurement	
Test Method for Hot Mix Asphalt - (Soluble Binder	BS EN 12697-1 Appendix
Content by Extraction Method)	B.1.5
	and B.2.1
Test Method for Hot Mix Asphalt (Grading of Bituminous	BS EN 12697-2
Mixtures)	
Test Method for Hot Mix Asphalt (Determination of	BS EN 12697-5 Clause 9.3
Maximum Density)	
Test Method for Hot Mix Asphalt (Determination of Bulk	BS EN 12697-6 Clause 9.2 &
Density of Bituminous Specimen)	9.3
Test Method for Hot Mix Asphalt (Determination of	BS EN 12697-8
Voids Characteristics of Bituminous Specimen)	DG F11 12 (67 6
Determination of the Reference Density	BS EN 12697-9
Bituminous Mixtures – Test Methods for Hot Mix Asphalt	BS EN 12697-13
(Temperature Measurement)	



Sampling of Hot Mix Asphalt	BS EN 12697-27
Preparation of HMA for Grading, Binder and Water	BS EN 12697-28
Content	
Bituminous Mixtures - Test Methods for Hot Mix Asphalt	BS EN 12697-29
(Determination of the Dimensions of a Bituminous	
Specimen)	DG F11 12 (07 20
Bituminous Mixtures - Test Methods for Hot Mix Asphalt	BS EN 12697-30
(Specimen Preparation by Impact Compactor)  Pituminaus Mixtures Test Methods for Het Mix Asphalt	BS EN 12697-34
Bituminous Mixtures - Test Methods for Hot Mix Asphalt (Marshall Test)	BS EN 12097-34
Laboratory Mixing of Hot Mix Asphalt	BS EN 12697-35
Test Description:	Test Method:
Bituminous Mixtures - Test Methods for Hot Mix Asphalt	BS EN 12697-36, Test 4.1
(Determination of the Thickness, Density and Compaction	only
of a Bituminous Pavement)	Olly
Method for Measurement of Slip/Skid Resistance of a	BS EN 13036-4
surface (Pendulum Test)	
Irregularity Measurement of Pavement Courses (Straight	BS EN 13036-7
Edge Test)	
Grading or Verification of Performance Grade of Asphalt	AASHTO R 29-15
Binder	
Method of Test for Determining the Rheological	AASHTO T 315-12
Properties of Asphalt Binder using a Dynamic Shear	
Rheometer (DSR)  Test Method for Penetration of Bituminous Materials	ASTM D5/D5M
Test Method for Loss on Heating of Oil & Asphaltic	ASTM D6/D6M
Compounds	ASTM DO/DOM
Test Method for Softening Point of Bitumen (Ring & Ball	ASTM D36/D36M-14e1
Apparatus)	116 11/1 250/ 250//1 1 101
Test Method for Density of Semi-Solid Asphalt Binder	ASTM D70
(Pycnometer Method)	
Test Method for Saybolt Viscosity	ASTM D88
Test Method for Flash and Fire Point of Bitumen by	ASTM D92
Cleveland Open Cup Tester	
Test Method for Water in Petroleum Products and	ASTM D95-13, Clause 9.3
Bituminous Materials by Distillation	only
Test Method for Ductility of Asphalt Materials	ASTM D113
Test Method for Float of Bituminous Materials	ASTM D139
Sampling of Asphalt Materials	ASTM D140/D140M
Test Method for Distillation of Cutback Asphalt	ASTM D402/D402M
Test Method for Effects of Heat and Air on Asphaltic	ASTM D1754/D1754M
Materials (Thin - Film Oven test)	
Test Method for Solubility of Asphalt Materials in	ASTM D2042
Trichloroethylene	A CTM D2170/D2170M
Test Method for Kinematic Viscosity of Asphalts	ASTM D2170/D2170M
Test Method for Viscosity of Asphalt by Vacuum	ASTM D2171/D2171M
Capillary Viscometer	



Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test)	ASTM D2872
Test Method for Flash Point of Cut Back Asphalt with Tag-Open Cup Apparatus	ASTM D3143/D3143M
Test Method for Viscosity Determination of Asphalt at	ASTM D4402/D4402M
Elevated Temperature Using a Rotational Viscometer	AGTIVI DTTOZ/DTTOZIVI
Recovery of Asphalt from Solution Using the Rotary	ASTM D5404/D5404M
Evaporator	
Test Method for Solubility of Asphalt Binder in Toluene	ASTM D5546
by Centrifuge	
Test Method for Accelerated Ageing of Asphalt Binder	ASTM D6521
Using a Pressurized Aging Vessel (PAV)	
Test Method for Flexural Creep Stiffness of Asphalt	ASTM D6648
Binder using the Bending Beam Rheometer (BBR)	
Test Method for Settlement and Storage Stability of	ASTM D6930
Emulsified Asphalt	
Test Method for Oversized Particles in Emulsified	ASTM D6933
Asphalt (Sieve Test)	
Test Method for Residue by Evaporation of Emulsified	ASTM D6934
Asphalt	
Test Description:	<b>Test Method:</b>
Test Method for Determining Cement Mixing of	ASTM D6935
Emulsified Asphalt	
Test method for Determining Density of Emulsified	ASTM D6937
Asphalt	
Test Method for Distillation of Emulsified Asphalt	ASTM D6997
Standard Practice for Determining the Separation	ASTM D7173
Tendency of Polymer from Polymer Modified Asphalt	
Standard	1 CT 1 DE1EE
Test Method for Determining the Rheological Properties	ASTM D7175
of Asphalt Binder Using Dynamic Shear Rheometer	
(DSR) Standard Practice for Identifying Cationic Emploified	ASTM D7402
Standard Practice for Identifying Cationic Emulsified Asphalts	ASTM D/402
Test Method for Multiple Stress Creep and Recovery	ASTM D7405
(MSCR) for Asphalt Binder Using a Dynamic Shear	ASTWID/403
Rheometer	
Test Method for Viscosity of Emulsified Asphalt by	ASTM D7496
Saybolt Furol Viscometer	718 111 15 / 190
Viscosity of Bituminous for Emulsion	BS 434-1 Appendix G only
Bitumen and Bituminous Binders - Determination of the	BS EN 1427, BS 2000-
Softening Point - Ring and Ball Method	58
	PWA 100/Nev T730C
Sieve Test of Asphalt Binder	
Test Method for Loss of Weight for Solubility Residue	PWA Memorandum No.: 2018/0035882/7
El1:11: (Dt-D:1) CEI 1 4' E CC	
Flowability (Percent Residue) of Thermoplastic Traffic	AASHTO T 250-05
Line Material	AASHTO T 250-05 Sec. 11



Low Temperature Stress Resistance (Cracking Resistance)	AASHTO T 250-05
of Thermoplastic Traffic Line Material	Sec.12
Flowability (Percent Residue) Extend Heating of	AASHTO T 250-05
thermoplastic Traffic Line Material	Sec. 17
Ultraviolet Light and Condensate Exposure (UVB Aging)	AASHTO T 250-05
of	Sec. 18
Thermoplastic Traffic Line Material by Accelerated	
Weathering Tester	
Test Methods for Specific Gravity of Pigment	ASTM D153, Method A Only
Test Methods for Determining the Izod Pendulum Impact	ASTM D256, Method A
Resistance of Plastics	
Test Method of Non-Pick-Up Time of Thermoplastic	ASTM D711
Traffic Line Material (Drying Time Wheel)	
Density and Specific Gravity of Thermoplastics Traffic	ASTM D792, Method A
Line Material by Displacement	
Test Method for Roundness of Glass Spheres	ASTM D1155
Test Method for Density of Liquid Coatings, Inks and	ASTM D1475
Related Products	
Test Method for Resistance of Organic Coatings to the	ASTM D2794
Effects of Rapid Deformation (Impact)	4 CEN 4 D 40 CO
Abrasion Resistance by the Taber Abraser	ASTM D4060
Pull-off strength of coating using portable adhesion testers	ASTM D4541 Annex A
Test Methods for Gravimetric Analysis of White and	ASTM D4797
Yellow Thermoplastic Traffic Marking	
Evaluation of Color and Calculating (Yellowness and	ASTM D4960
Whiteness Indices) of Thermoplastic Material	
Standard Practice for Sampling of Thermoplastic Traffic	ASTM D7307
Marking Materials	A CTM D7200
Standard Practice for Sample Preparation of	ASTM D7308
Thermoplastic Traffic Marking Materials  Test Description:	Test Method:
Test Description:	
Evaluation of Color and Calculating (Yellowness and	ASTM E313
Whiteness Indices) of Thermoplastic Material	ACTIVIDAD
Test Method for Field Measurement of Raised	ASTM E1696
Retroreflective Pavement Markers Using a Portable Retroflectometer	
	ASTM E1709
Measurement of Retroreflective Signs Using a Portable Retroreflectometer	ASTMET/09
Binder Content of Thermoplastic Materials - Ignition	BS 3262-1 Appendix C4
Method	BS 3202-1 Appendix C4
Grading of Constituents of Road Marking	BS 3262-1 Appendix D
Determination of Luminance Factor	BS 3262-1 Appendix F
Hot-applied Thermoplastic Road Marking Materials	BS 3262-1 Appendix H
(Specification for Constituent Materials and Mixtures)	DS 3202-1 Appellula II
Test Method for Particle Size Distribution of Glass Beads	BS 6088:1981
	BS EN 1436 Annex A
Road Marking Materials - Road Marking Performance for Road Users - Measurement Method for the Luminance	DS EN 1430 AIIIEX A
Coefficient under Diffuse Illumination Qd	
Coornelon under Diffuse manimation Qu	



Road Marking Materials - Road Marking Performance for Road Users - Measurement Method for the Coefficient of	BS EN 1436 Annex B
Retroreflected Luminance RL	
Evaluation of Color for Thermoplastic Traffic Marking	BS EN 1436 Annex C
Materials	
Road Marking Materials - Road Marking Performance for	BS EN 1436+A1 Annex D
Road Users – Measuring Method for Skid Resistance	
Road Marking Materials - Retroreflecting Road Studs -	BS EN 1463-1
Initial Performance Requirements	
Test Method for Determining the Bleed Resistance	BS EN 1871 Annex C
Test Method for Determining the Alkali Resistance for	BS EN 1871 Annex D
Road Marking Materials	DG FN 12107 - 11 1 - G1
Wet Film Thickness of Paints	BS EN 13197+A1 Annex C1
Road Marking Materials - Determination of Layer	BS EN 13197+A1 Annex C2
Thickness of Road Marking Materials - Layer Thickness	
of Plastic	
Test Method for Determination of Viscosity (by Daniel Flow Gauge)	Daniel Flow Method
Ultraviolet Light & Condensate Exposure Laboratory Light	ISO 4892-3
Test Method for Determination of Flash Point by Abel Closed-Up	ISO 13736
Moisture Content of Solid Glass Beads Use in Road	Oven Dry
Marking	
Soil:	
Method of Test for Moisture-Density Relations of Soils	AASHTO T 180
Using a	
4.54 kg (10 lb.) Rammer and a 457mm (18 in.) Drop	
Test Methods for Laboratory Compaction Characteristics	ASTM D698 <sup>1</sup>
of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kn-	
n/m3))	
Test Method for Specific Gravity of Soil Solids by Water	ASTM D854
Pycnometer.	
Test Method for Determining the Amount of Material	ASTM D1140 <sup>1</sup>
Finer than 75	
μm (No.200) Sieve in Soils by Washing	
Test Method for Density & Unit Weight of Soil in Place	ASTM D1556/D1556M
by Sand Cone Method	
Test Method for Laboratory Compaction - Characteristics	ASTM D1557 <sup>1</sup>
of Soil using Modified Effort	
Test Method for California Bearing Ratio (CBR) of	ASTM D1883 <sup>1</sup>
Laboratory- Compacted Soils	
Test Description:	Test Method:
Test Method for Laboratory Determination of Water	ASTM D2216 <sup>1</sup>
(Moisture) Content of Soil and Rock by Mass	
Test Method for Sand Equivalent Value of Soils and Fine	ASTM D2419 <sup>1</sup>
Aggregate	
Test Method for Liquid Limit, Plastic Limit, and Plasticity	ASTM D4318 <sup>1</sup>
Index of Soils	



Standard Test Method for CBR (California Bearing Ratio) of Soils in Place	ASTM D4429
Test Method for Correction of Unit Weight and Water Content of Soils Containing Oversize Particles	ASTM D4718/D4718M <sup>1</sup>
Test Method for Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Gas Pressure Meter	ASTM D4944
Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure	ASTM D5334
Test Method for Particle Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D6913 <sup>1</sup>
Test Methods for In-Place Density & Water Content of Soil & Soil- Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938
Test Method for Laboratory Determination of Density (Unit Weight) of Soil Specimens	ASTM D7263
Test Method for Particle Size Distribution (Gradation) of Fine- Grained Soils Using the Sedimentation (Hydrometer) Analysis	ASTM D7928-17
Test Method for Measuring Deflections with a Light Weight Deflectometer (LWD)	ASTM E2583
Test Method for Measuring Deflections using a Portable Impulse Plate Load Test Device	ASTM E2835
Test Method for Sampling of Soil Materials	BS 1377-1
Test Method for Determination of Moisture Content of Soils (Oven- Drying Method)	BS 1377-2 Cl 3.2
Test Method for Determination of Liquid Limit (Cone Penetrometer), Plastic Limit & Plasticity Index of Soil	BS 1377-2 Cl 4.3 & 5.0
Test Method for Determination of Liquid Limit (Casagrande), Plastic Limit & Plasticity Index of Soil	BS 1377-2 Cl 4.5 & 5.0
Test Method for Determination of Linear Shrinkage	BS 1377-2 Cl 6.5
Test Method for Determination of Particle Density of Soils by Gas Jar Method	BS 1377-2 Cl 8.2
Test Method for Determination of Particle Density of Soil by Small Pycnometer Method	BS 1377-2 Cl 8.3
Test Method for Determination of Particle Size Distribution of Soils (Wet Sieving Method)	BS 1377-2 Cl 9.2
Test Method for Determination of Particle Size Distribution (Dry Sieving Method)	BS 1377-2 Cl 9.3
Test Method for Determination of Particle Size Distribution (Sedimentation by the Hydrometer Method)	BS 1377-2 Cl. 9.5
Test Method for Determination of Dry Density/Moisture Content Relationship	BS 1377-4 Cl. 3, CML Test Method 12
Test Method for Determination of the California Bearing Ratio	BS 1377-4 Cl 7, CML Test Method 10
Field Density by Sand Replacement Method	BS 1377-9 Cl 2.1
Test Description:	Test Method:



Field Density by Sand Replacement Method	BS 1377-9Cl 2.2
Test Methods for In-Place Density & Water Content of	BS 1377-9Cl. 2.5
Soil (Fine, Medium & Coarse-Grained Soil) by Nuclear	
Methods	
Test Method for Determination of the In-Situ California	BS 1377-9Cl. 4.3
Bearing Ratio (CBR)	
Determination of Water Content	BS EN ISO 17892- 1
Determination of Liquid Limit and Plastic Limit (Fall	BS EN ISO 17892- 12 Cl
Cone Method)	5.3 & Cl 5.5
Determination of Liquid Limit and Plastic Limit	BS EN ISO 17892- 12 Cl
(Casagrande Method)	5.4 & Cl 5.5
Sampling of Cement Stabilized Materials	BS 1924-1
Determination of Compressive Strength of Cubic	BS 1924-2 Cl. 5
Specimens (for Specimen Compacted to Refusal)	DG EN 12207 2
Test Method for Determination of Laboratory Reference	BS EN 13286-2
Density and Water Content by Proctor Compaction  Test Method for Determination of the Compagains	BS EN 13286-41
Test Method for Determination of the Compressive Strength of Hydraulically Bound Mixtures	BS EN 13280-41
Method for the Manufacture of Test Specimens of Cement	BS EN 13286-51
Bound Materials Using Vibrating Hammer	DS EN 13280-31
Non-Destructive	
Test Method for Corrosion Potentials of Uncoated	ASTM C876 Product Manual
Reinforcing Steel in Concrete	ASTWICE/OFFICUAL Wallual
Test Method for Rebound Number of Hardened Concrete <sup>1</sup>	ASTM C805/C805M
Test Method for Low Strain Dynamics Operation Impact Integrity Testing of Manual Deep Foundations	ASTM D5882, Pile Dynamics Operation Manual
Standard Test Method for Nondestructive Measurement of	ASTM D6132
Dry Film	A31W D0132
Thickness of Applied Organic Coatings Using an	
Ultrasonic Coating Thickness Gage	
Standard Practice for Nondestructive Measurement of Dry	ASTM D7091
Film Thickness of Nonmagnetic Coatings Applied to	
Ferrous Metals and Non-magnetic, Non-Conductive	
Coatings Applied to Non-Ferrous Metals	
Test Method for Non-Destructive Testing of Welds by	ASTM E165/E165M
Liquid Penetrant Testing	
Test Method for Determining the Pipeline Deflection Test	ASTM D3034, ASTM F679
Spark Holiday Detection in Pipeline Coating	ASTM G62
Test Method for Pull-Off Test for Anchors in Concrete	BS 8539:2012 Sec 9.3 &
and Masonry	Annex B.3
Test Method for Measurement of Bond Strength by Pull	BS EN 1542:1999
Off for	
Protection and Repair of Concrete Structure	
Testing Concrete in Structures - Non-Destructive Testing	BS EN 12504-2
(Determination of Rebound Number)	
Testing Concrete - Determination of Ultrasonic Pulse	BS EN 12504-4
Velocity	
<b>Test Description:</b>	<b>Test Method:</b>



Test Method for Non Destructive Testing of Welds by	BS EN ISO 17638
Magnetic Particle Testing Test Method for Non-Destructive Testing of Concrete	SOP: DTL/PR/ND/DM/001
Structures (Crack Depth Measurement)	
Test Method for Non-Destructive Testing of Concrete	SOP: DTL/PR/ND/DM/002
Structures (Surface Velocity Measurement)	
Test Method for Non-Destructive Testing of Concrete	SOP: DTL/PR/ND/DM/003
Structures Reinforcement Steel Survey by Ferro Scan)	
Test Method for Non-Destructive Testing of Concrete	SOP: DTL/PR/ND/DM/004
Structures (Estimated Compressive Strength)	
Test Method to Monitor Crack Width by Crack Width	Device Manual
Gauge	
Test Method for Determining Surface Moisture in	Device Manual
Concrete Structure	
Determination of Relative Humidity in Concrete Structure	Device Manual
Using In-Situ Probes	
Test Method for Torque Wrench for Anchors	Device Manual
<b>Test Description:</b>	Test(s):
Test Method for Performed Expansion Joint Fillers for	ASTM D545
Concrete Construction (Non-extruding and Resilient	
Types)	
Test Method for Puncture Resistance of Coated	ASTM D751
Fabrics/Geotextile	
Test Method for Bursting Strength of Textiles - Constant-	ASTM D3787
Rate-of-Traverse (CRT) Ball Burst Test	
Test Method for Trapezoid Tearing Strength of	ASTM D4533/D4533M
Geotextiles	
Test Method for Breaking Strength and Elongation of	ASTM D5034
Textile Fabrics (Grab Test)	
Test Method for Breaking Force and Elongation of Textile	ASTM D5035
Fabrics (Strip Method)	
Test Method for Measuring the Nominal Thickness of	ASTM D5199
Geosynthetics	
Textiles - Determination of Thickness of Textiles and	BS EN ISO 5084
Textile Products	
Geosynthetics - Wide-Width Tensile Test	BS EN ISO 10319
Geotextiles and Geotextile-Related Products -	BS EN ISO 11058
Determination of Water Permeability Characteristics	
Normal to the Plane Without Load	
Determination of Mass per Unit Area of Textiles / Fabrics	BS EN 12127
Using Small Samples	
Geosynthetics - Static Puncture Test (CBR Test)	BS EN ISO 12236
Geotextiles and Geotextile-Related Products -	
	BS EN ISO 12956
Determination of the Characteristic Opening Size	DG EN 190 12422
Geosynthetics - Dynamic Perforation Test (Cone Drop	BS EN ISO 13433
Test)	T. 4( )
<u>Test Description:</u>	Test(s):



Test Method for Evaluating the Resistance of Plastics to Chemical Reagents	ASTM D543
Test Method for Water Absorption of Plastics	ASTM D570
Test Method for Tensile Properties for Plastic	ASTM D638
Test Method for Tensile Properties of Thin Plastics	ASTM D882
Sheeting	ASTM D002
Test Method for Pressure-Sensitive Adhesion - Coated	ASTM D1000
Tapes	118111111111111111111111111111111111111
Test Method for Tear Resistance (Graves Tear) of Plastic	ASTM D1004
Film and Sheeting	
Test Method for Compressive Properties of Rigid Cellular	ASTM D1621
Plastics	112 111 2 1021
Test Method for Apparent Density of Rigid Cellular	ASTM D1622/D1622M
Plastics	
Test Method for Rubber Property - Durometer Hardness	ASTM D2240
Test Method for Water Vapor Transmission of Materials	ASTM E96/E96M
Test Method for Water Vapor Retarders Used in Contact	ASTM E154
with Earth under Concrete Slabs, on	
Walls or as Ground Cover	
Test Method for Flexible Sheets for Waterproofing –	BS EN 1849-1
Determination of Thickness and Mass per Unit Area`1	
Test Method for Determination of Thickness at Specified	BS EN 9863-1
Pressures	25 E1 ( ) 603 1
Determination of Tensile Properties for Plastic	BS EN ISO 527-3
Steel for the Reinforcement of Concrete – Weldable	BS 4449:2005+A3, Test 7.2.5
Reinforcing Steel-Bar, Coil and Decoiled Product -	only
Specification - Bending & Re-	_
Bending of Steel Bar	
Test Method for Concrete Cover of Gully Top and	BS EN 124-1 Annex A & B
Manhole Top for Vehicular and Pedestrian Areas	
(Permanent Set Test & Load Bearing Capacity	
Test)	
Mechanical Properties of Fasteners Made of Carbon Steel	BS EN ISO 898-1
and Alloy Steel. Part 1: Bolts, Screws and Studs with	
Specified Property Classes	
- Coarse Thread and Fine Pitch Tread	
Metallic Materials Tensile Testing at ambient	BS EN ISO 6892-1
Temperature	
Bend of Metallic Materials Using Former Bending Device	BS EN ISO 7438
Metallic Materials - Tensile Testing - Method of Test at	BS EN 10002-1
Ambient Temperature - Tensile Properties	
of Steel Bar	
Hardness Test for Manhole Cover	MH 180 Hardness Tester User
	Manual
Test Description:	Test Method(s):



Smarification for Chamical Admireture for Compute	
Specification for Chemical Admixture for Concrete - Residue by Oven Drying for Concrete Liquid Admixtures	ASTM C494/C494M C1 18.2
Specification for Chemical Admixture for Concrete - Specific Gravity of Concrete Liquid Admixtures	ASTM C494/C494M C1 18.4
Potential Alkali Silica Reactivity of Aggregate	ASTM C289
Testing Aggregates (Methods for Determination of Water-Soluble Chloride Salts) - Chloride Content in Water	BS 812-117 Cl 9.2
Testing Aggregates (Methods for Determination of Water-Soluble chloride Salts) - Chloride Content of Aggregates Using a Nitric Acid Extraction	BS 812-117 (Appendix C)
Methods of test for Soils for Civil Engineering Purposes. Chemical and Electro-Chemical Tests- Total Sulphate Content of Aggregates	BS 812-118 Cl.5
Test Method for Assessment of Fines - Methylene Blue Test	BS EN 933-9+A1
Test Method for the Determination of Water- Soluble Chloride Salts in Aggregates Using the Volhard Method	BS EN 1744-1+A1 Cl 7
Test Method for the Determination of Water- Soluble Sulfates in Natural and Manufactured Aggregates	BS EN 1744-1+A1 Cl 10.1
Test Description:	Test Method(s):
Tests for Chemical Properties of Aggregates(Chemical Analysis) - Clause 12 Determination of Acid Soluble Sulfates	BS EN 1744-1+A1 Cl 12
Tests for Chemical Properties of Aggregates (Determination of Acid Soluble Chloride Salts)	BS EN 1744-5
	BS EN 1744-5  ASTM C311/C311M Cls. 13 & 14
(Determination of Acid Soluble Chloride Salts)  Test Method for the Determination of Loss on Ignition for Fly Ash or Natural Pozzolans for Use	ASTM C311/C311M Cls. 13
(Determination of Acid Soluble Chloride Salts)  Test Method for the Determination of Loss on Ignition for Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete  Standard Test Method for Major and Minor Elements in Coal and Coke Ash by X-Ray Fluorescence (Na <sub>2</sub> O, MgO, Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , K <sub>2</sub> O, CaO, TiO <sub>2</sub> , MnO <sub>2</sub> ,	ASTM C311/C311M Cls. 13 & 14
(Determination of Acid Soluble Chloride Salts)  Test Method for the Determination of Loss on Ignition for Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete  Standard Test Method for Major and Minor Elements in Coal and Coke Ash by X-Ray Fluorescence (Na2O, MgO, Al2O3, SiO2, P2O5, SO3, K2O, CaO, TiO2, MnO2, Fe2O3, SrO, BaO)  Test Method for the Determination of Loss on Ignition for Cements and their Constituent	ASTM C311/C311M Cls. 13 & 14  ASTM D4326: Pressed Pellets



Standard Test Method for the Determination of Chloride for Cements and their Constituent Materials	BS EN 196-2 Clause 4.5.16
Standard Test Method for The Determination of Sulfate, Silica Content, Iron (III) Oxide, Aluminium Oxide, Calcium Oxide, Magnesium Oxide, Sodium Oxide, Potassium Oxide, Phosphorus Pentoxide, Titanium Dioxide, Chromium Oxide, Manganese Trioxide, Zinc Oxide and Strontium Oxide for Cements and their Constituent Materials	BS EN 196-2 Clause 5: Chemical Analysis by X- ray Fluorescence
Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202
Water Soluble Chloride Content in Material	ASTM C1218/C1218M
Sulphate Content in Concrete	BS 1881-124 Cl 12.2
Determination of Water-Soluble Chloride Content	BS EN 480-10
Chloride Migration Coefficient of Concrete	NT Building 492
Determination of pH value for Water and Wastewater	BS EN ISO 10523
Color in Water	SMEWW 2120C
Turbidity in Water	SMEWW 2130 B
Acidity in Water	SMEWW 2310B
Total and Composite Alkalinity of Water and Wastewater	SMEWW 2320 B
Hardness in Water by EDTA Titrimetric Method	SMEWW 2340C
Test Description:	Test Method(s):
Salinity of Water and Wastewater	SMEWW 2520B
Test Method for the Determination of Calcium and Calcium Hardness in Water By EDTA Titrimetric Method	SMEWW 3500 - Ca B
Test Method for The Determination of Magnesium and Magnesium Hardness in Water by Calculation Method	SMEWW 3500 - Mg B
Chlorine Free in Water Spectrophotometric Method	SMEWW 4500-Cl G
Fluoride in Water by SPADNS Method	SMEWW 4500 F-D
Nitrate Nitrogen in Water by UV Spectrophotometer	SMEWW 4500 NO3 B
Dissolved Oxygen Value of Water & Wastewater (Membrane Electrode Method)	SMEWW 4500 O G
Chemical Oxygen Demand in Water	SMEWW 5220 D
Presence of Floatation Coating in the Glass Beads Sample	BS EN 1423 (Annex F)
Test Method for Moisture, Ash, and Organic Matter of Peat and other Organic Soils	ASTM D2974
Test Method for Rapid Determination of Carbonate Content of Soils	ASTM D4373
Thermal Conductivity of Soil by KD2	ASTM D5334
Test Method for Determination of Organic Matter Content in Soil	BS 1377-3 Cl 4



Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) - 5.3 Preparation Soil and its Acid Extract and 5.5 Gravimetric Method for Analysis of Acid or Water Extract or Ground Water	BS 1377-3 Cl. 5.3 & 5.5
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) - Test Method for Determination of Water-Soluble Sulphate	BS 1377-3 Cl. 5.3 & 5.5
Contents in Soil by Gravimetric Method  Test Method for Determination of Water Soluble Sulfate Content Test in Soil by Gravimetric Method	BS 1377-3 Cl. 7.3 & 7.6
Test Method for Determination of Acid Soluble Sulfate Content Test in Soil by Gravimetric Method	BS 1377-3 Cl. 7.6 & 7.9
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) - Determination of Water-soluble Chloride Content	BS 1377-3 Cl. 9.2
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) - Acid Soluble Chloride Content in Soil by Acid Extraction	BS 1377-3 Cl. 9.3
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) - Determination of the pH value	BS 1377-3 Cl 12
Test Description:	Test Method(s):
Test Method for Analysis of Carbon and Low- Alloy Steel by Spark Atomic Emission Spectrometry (Al, C, Cr, Co, Cu, Mn, Mo, Ni, Nb, N, P, Si, S, Sn, Ti, V)	ASTM E415
Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry (C, Cr, Cu, Mn, Mo, Ni, P, S, Si)	ASTM E1086
Chloride Content in Water	ASTM D512 Method B
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) – Test Method for Determination of Ground Water Sulfate Content (Gravimetric Method)	BS 1377-3 C1 7.8, 7.3.4.4 & 7.6
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) – Determination of total dissolved solids	BS 1377-3 Cl 11
Soils for Civil Engineering Purposes (Chemical and Electro-Chemical Tests) – Determination of the pH value	BS 1377-3 Cl 12
Water Quality Determination of Alkalinity – Part 1 Determination of Total and Composite Alkalinity – Visual Method & Potentiometric	BS EN ISO 9963-1, BS 6068- 2.51
Turbidity in Water	DIN/EN 7027
Electrical Conductivity Laboratory Method	SMEWW 2510 B
	SIVIL W W 2310 D
Total Solids Dried at 103 – 105 °C	SMEWW 2540 B
Total Solids Dried at 103 – 105 °C  Total Dissolved Solids Dried at 180 °C	



Total Suspended Solids Dried at 103 – 105 °C	SMEWW 2540 D
Fixed and Volatile Solids Ignited at 550 °C	SMEWW 2540 E
Chloride Argentometric Method	SMEWW 4500 Cl B
pH Electrometric Method	SMEWW 4500 H+ B
Ammonia Nitrogen	SMEWW 4500 NH3 B+ F
Phosphate (Total & Orthophosphate)	SMEWW 4500 P C & E
Sulfate: Gravimetric Method with Ignition of Residue	SMEWW 4500 SO4 2-C
Test Method for Biochemical, Oxygen Demand BOD5	SMEWW 5210 B
Aluminum (Al)	SMEWW 3120 B
Antinomy (Sb)	SMEWW 3120 B
Arsenic (As)	SMEWW 3120 B
Barium (Ba)	SMEWW 3120 B
Beryllium (Be)	SMEWW 3120 B
Boron (B)	SMEWW 3120 B
Cesium (Cs)	SMEWW 3120 B
Calcium (Ca)	SMEWW 3120 B
Cadmium (Cd)	SMEWW 3120 B
Cerium (Ce)	SMEWW 3120 B
Chromium (Cr)	SMEWW 3120 B
Cobalt (Co)	SMEWW 3120 B
Copper (Cu)	SMEWW 3120 B
Test Description:	Test Method(s):
Iron (Fe)	SMEWW 3120 B
Lead (Pb)	SMEWW 3120 B
Lithium (Li)	SMEWW 3120 B
Magnesium (Mg)	SMEWW 3120 B
Manganese (Mn)	SMEWW 3120 B
Molybdenum (Mo)	SMEWW 3120 B
Nickel (Ni)	SMEWW 3120 B
Phosphorus (P)	SMEWW 3120 B
Potassium (K)	SMEWW 3120 B
Sodium (Na)	SMEWW 3120 B
Silicon (Si) or Silica	SMEWW 3120 B
Silver (Ag)	SMEWW 3120 B
Strontium (Sr)	SMEWW 3120 B
Thallium (Tl)	SMEWW 3120 B
Titanium (Ti)	SMEWW 3120 B
Tin (Sn)	SMEWW 3120 B
Vanadium (V)	SMEWW 3120 B
Zinc (Zn)	SMEWW 3120 B
ICP AES – Ag, Al, As, Au, B, Ba, Be, Bi, Ca,	US EPA 6010C (ICP- AES)
Cd, Co, Cr, Cs, Cu, Fe, Hg, Ir, K, Li, Mb, Mg,	
Mn, Na, Ni, Pb, Pt, Sb, Se, Si, Sn, Sr, Tl, V, Zn	
Environmental	
Ambient Air Quality Test by Aeroqual Sensor	SOP: DTL/Pr/Env/001



Test Method for Particulate Matter (PM 2.5 & PM10)	SOP: DTL/Pr/Env/004
Test Method for Noise Monitoring	DTL/Pr/Env/002
Tests for Thermal and Weathering Properties of	BS EN 1367-2
Aggregate, Magnesium Sulfate Test.	
Qualitative Detection of Harmful Clays of the Smectite	ASHTO T 330
Group using Methylene Blue	
Test Method for Organic Impurities in Fine Aggregates	ASTM C40/C40M
for Concrete	
Soundness of Aggregate by Magnesium Sulphate	ASTM C88
Road Marking Materials - Drop on Materials - Glass	BS EN 1423 Annex B
Beads, Antiskid Aggregates and Mixtures of the Two -	
Resistance of the Glass Beads to the Effects of Water,	
Hydrochloric Acid, Calcium	
Chloride and Sodium Sulfide	
Presence of Floatation Coating in the Glass Beads Sample	BS EN 1423 Annex F
Road Marking Materials - Drop on Materials - Glass	BS EN 1423 Annex E (E.2
Beads, Antiskid Aggregates and Mixtures of the Two -	Procedure B)
Presence of the Moisture Proof	
Coating	
Test Methods to Determine the Refractive Index of the	BS EN 1423 Annex A
Glass Beads	
BIOLOGICAL	
<b>Test Description:</b>	Test Method(s):
Multi-Tube Technique for Pseudomonas aeruginosa	SMEWW 9213 F
Heterotrophic plate count, Enzyme substrate Method	SMEWW 9215 E
Enzyme substrate test, for Total Coliform and E. Coli	SMEWW 9223 B
using IDEXX method	
Determination of Fecal Coliform by Colilert -18 (Test kit	SMEWW 9223 B + IDEXX
based on SMEWW 9223 B)	COLILERT



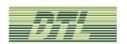
# List of Calibrated Equipment



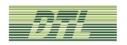
#### LIST OF CALIBRATED LABORATORY EQUIPMENT

Form No. DTL/F/Mi/960 Revision 01 Date 24/01/2021 Page 1 of 1

S/N	Calib. By	Equipment Details	Serial No.	Asset No.	Tests	Location
01	BNGESC	Compresion Machine	692	DTL-CM-002	CONCRETE/CEME NT	DTL
02	BNGESC	Dial Pressure Gauge	63-7211-400	DTL-PSG-010	BITUMEN	DTL
03	BNGESC	Digital Hygrometer	5	DTL-TH-124	General	QBC Site
04	BNGESC	Hygro- Thermometer	22	DTL-TH-144	General	QBC Site
05	BNGESC	Pressure Aging Vessel	95799	DTL-PAV-001	BITUMEN	DTL
06	BNGESC	Digital Thermostatic Cabinet	1211/14556	DTL-FZR-007	Microbiology	DTL
07	BNGESC	Digital Oven	17C155	DTL-OVEN-039	ASPHALT	DTL
08	BNGESC	Electric Oven	2.0191E+11	DTL-OVEN-057	SOIL/AGGREGATE	DTL
09	BNGESC	Cement Mixer	AH/0021	DTL-HDM-008	CONCRETE/CEME NT	DTL
10	BNGESC	Digital Incubator	D314.0170	DTL-FZR-008	Microbiology	DTL
11	BNGESC	Humidity Cabinet	SYD-0613A	DTL-HC-001	CONCRETE/CEME NT	DTL
12	BNGESC	Electronic Balance	99330156	DTL-BAL-073	Master Store	DTL
13	BNGESC	Electronic Balance	161414001	DTL-BAL-049	SOIL/AGGREGATE	DTL



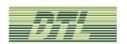
14	BNGESC	Electronic Balance	2306728/08	DTL-BAL-074	Master Store	DTL
15	BNGESC	Analytical Balance	33985	DTL-BAL-028	BITUMEN	DTL
16	BNGESC	Electronic Balance	B000016JHR	DTL-BAL-053	SOIL/AGGREGATE	DTL
17	BNGESC	Electronic Balance	BL 161414003	DTL-BAL-050	SOIL/AGGREGATE	DTL
18	BNGESC	Electronic Balance	BL131011315	DTL-BAL-060	Master Store	DTL
19	BNGESC	Electronic Balance	BL1501068108	DTL-BAL-040	ROAD-MARKING	DTL
20	BNGESC	Electronic Balance	C103507	DTL-BAL-001	SOIL/AGGREGATE	DTL
21	BNGESC	Marshall Compactor	1108-39-1585	DTL-MC-008	ASPHALT	DTL
22	BNGESC	Electric Oven	20160111001	DTL-OVEN-049	SOIL/AGGREGATE	DTL
23	BNGESC	Digital Thermometer	33718076/805	DTL-TH-176	General	Operation (Site Using)
24	BNGESC	Muffle Furnace	IP20N0032	DTL-MF-002	CHEMICAL	DTL
25	BNGESC	Stop Watch	9	DTL-SWH-044	General	Operation (Site Using)
26	BNGESC	Straight Bar	177012	DTL-SB-013	CONCRETE/CEME NT	DTL
27	BNGESC	Gauge Block of IRI	5051-4-217	DTL-IRI-GB-001	General	Operation (Site Using)
28	BNGESC	Right Angle	N/A	DTL-RA-004	General	Al Ali Site Lab



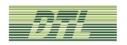
29	BNGESC	Electronic Balance	152003016	DTL-BAL-027	ROAD-MARKING	DTL
30	BNGESC	Automatic Lab Asphalt Mixer	16011201	DTL-HDM-001	ASPHALT	DTL
31	BNGESC	Skid Resistance Tester	CS-PENDULUM-1720-04	DTL-SRT-002	ROAD-MARKING	DTL
32	BNGESC	Drying Time Wheel with Ramp	N/A	DTL-DTW-001	ROAD-MARKING	DTL
33	BNGESC	Digital Count Up/Down Timer	19	DTL-SWH-065	CONCRETE/CEME NT	DTL
34	BNGESC	Digital Count Up/Down Timer	20	DTL-SWH-066	CONCRETE/CEME NT	DTL
35	BNGESC	Digital Count Up/Down Timer	22	DTL-SWH-068	CONCRETE/CEME NT	DTL
36	ABS GROUP INC.	Diesel Engine Powered Crawler Mounted Hydraulic Drilling Rig	19213	DTL-RIG-04	GEO-TECHNICAL	DTL
37	ABS GROUP INC.	Diesel Engine Powered Crawler Mounted Hydraulic Drilling Rig	49313	DTL-RIG-03	GEO-TECHNICAL	DTL
38	BNGESC	Digital Count Up/Down Timer	21	DTL-SWH-067	CONCRETE/CEME NT	DTL
39	BNGESC	Stop Watch	112Q06R-1	DTL-SWH-050	CONCRETE/CEME NT	DTL
40	BNGESC	Steel Ruler	36	DTL-SLR-022	General	Operation (Site Using)
41	BNGESC	Softening Point Apparatus	N/A	DTL-SOF-002	ROAD-MARKING	DTL
42	BNGESC	Stop Watch	112Q06R-2	DTL-SWH-051	SOIL/AGGREGATE	DTL



43	BNGESC	Right Angle	1617005	DTL-RA-010	Master Store	DTL
44	BNGESC	Right Angle	4506731230	DTL-RA-005	Master Store	DTL
45	BNGESC	Straight Edge Bar	4507711014	DTL-SB-005	Master Store	DTL
46	BNGESC	Marshall Testing Machine	Load Cell - 211420	DTL-MT-001	General	QBC Site
47	BNGESC	Feeler Gauge	2611198103	DTL-FG-020	General	Al Ali Site Lab
48	BNGESC	Digital Caliper	DF 160221861	DTL-DC-008	General	Al Ali Site Lab
49	BNGESC	Soil Compactor	N/A	DTL-PROC-007	SOIL/AGGREGATE	DTL
50	BNGESC	Digital Thermometer	34701083/107	DTL-TH-059	General	Operation (Site Using)
51	BNGESC	Chloride Migration Tester	0156-A	DTL-RCMT-001	CONCRETE/CEME NT	DTL
52	BNGESC	Chloride Migration Tester	1161	DTL-RCMT-003	CONCRETE/CEME NT	DTL
53	BNGESC	Electric Oven	119719B0517	DTL-OVEN-045	ASPHALT	DTL
54	BNGESC	Feeler Gauge	2611198116	DTL-FG-019	Master Store	DTL
55	BNGESC	Penetrometer	5116	DTL-PENAL-001	SOIL/AGGREGATE	DTL
56	BNGESC	Water Bath	5800-359-2384	DTL-WBATH- 028	ASPHALT	DTL
57	BNGESC	CBR + Consolidation Machine	GCC16-0466	DTL-CBRC-001	SOIL/AGGREGATE	DTL
58	BNGESC	Casagrande Apparatus	14645	DTL-LLA-001	SOIL/AGGREGATE	DTL



59	BNGESC	Feeler Gauge	8	DTL-FG-008	General	QBC Site
60	BNGESC	Digital Ouside Micrometer	60790531	DTL-DMI-001	GEO-TEXTILE	DTL
61	BNGESC	Digital Folding Thermometer	190712057	DTL-TH-306	General	Operation (Site Using)
62	BNGESC	Digital Folding Thermometer	190712058	DTL-TH-307	General	Operation (Site Using)
63	BNGESC	Digital Folding Thermometer	190712059	DTL-TH-308	General	Operation (Site Using)
64	BNGESC	Digital Folding Thermometer	190712060	DTL-TH-309	General	Operation (Site Using)
65	BNGESC	Digital Folding Thermometer	190712061	DTL-TH-310	General	Operation (Site Using)
66	BNGESC	Digital Folding Thermometer	35724083	DTL-TH-087	General	Operation (Site Using)
67	BNGESC	Sand Equivalent Shaker	13/000268	DTL-SES-002	SOIL/AGGREGATE	DTL
68	BNGESC	Casagrande Apparatus	13000774	DTL-LLA-002	SOIL/AGGREGATE	DTL
69	BNGESC	Electronic Balance	1307EC301251	DTL-BAL-035	General	Operation (Site Using)
70	BNGESC	Digital Folding Thermometer	150413514	DTL-TH-196	General	Operation (Site Using)
71	BNGESC	Steel Ruler	54	DTL-SLR-046	General	QBC Site



72	BNGESC	Marshall Compactor (Type- 3)	4215	DTL-MC-014	ASPHALT	DTL
73	BNGESC	Muffle Furnace	477524	DTL-MF-004	BITUMEN	DTL
74	BNGESC	Laboratory Refrigerator	FYL-15-069593	DTL-FZR-010	ASPHALT	DTL
75	BNGESC	Soil Compactor	N/A	DTL-PROC-006	SOIL/AGGREGATE	DTL
76	BNGESC	Digital Thermometer	150413504	DTL-TH-048	General	Operation (Site Using)
77	BNGESC	Digital Thermometer	150413546	DTL-TH-047	General	Operation (Site Using)
78	MECMES IN LTD.	Shortcrete Penetrometer	20-0032-05	DTL-PENAL-005	CONCRETE/CEME NT	DTL
79	BNGESC	Laser Infrared Thermometer	E7092013206	DTL-TH-226	ASPHALT	DTL
80	BNGESC	Stop Watch	011Q07R	DTL-SWH-053	CONCRETE/CEME NT	DTL
81	BNGESC	Feeleer Gauge	12	DTL-FG-014	CONCRETE/CEME NT	DTL
82	BNGESC	Straight Edge	177013	DTL-SB-014	CONCRETE/CEME NT	DTL
83	PILE DYNAMI CS INC.	PIT Hammer		DTL-PIT-001-A3	GEO-TECHNICAL	DTL
84	BNGESC	Digital Folding Thermometer	150413547	DTL-TH-193	General	Operation (Site Using)
85	PILE DYNAMI CS INC.	PIT Acceloerometer	LW248185	DTL-PIT-001-A1	GEO-TECHNICAL	DTL



86	BNGESC	Digital Water Bath	N/A	DTL-WBATH- 033	CONCRETE/CEME NT	DTL
87	BNGESC	Electronic Oven	10F124	DTL-OVEN-021	CONCRETE/CEME NT	DTL
88	BNGESC	Flexural Machine	1547-6-1425	DTL-FM-002	CONCRETE/CEME NT	DTL
89	PILE DYNAMI CS INC.	Pile Inegrity (PIT)	4699CF	DTL-PIT-001	GEO-TECHNICAL	DTL
90	BNGESC	Digital Folding Thermometer	150413548	DTL-TH-195	General	Operation (Site Using)
91	BNGESC	Humidity- Temperature Logger	D09240435	DTL-TH-179	CHEMICAL	DTL
92	BNGESC	Humidity- Temperature Logger	D12250207	DTL-TH-180	CHEMICAL	DTL
93	BNGESC	Water Bath	L414-1114	DTL-WBATH- 016	Microbiology	DTL
94	BNGESC	Dial Indicator (CBR Swell)	17717	DTL-DIG-090	SOIL/AGGREGATE	DTL
95	BNGESC	Dial Indicator (CBR Swell)	17922	DTL-DIG-092	SOIL/AGGREGATE	DTL
96	BNGESC	CBR Swell Gauge Set (Dial Indicator)	17966	DTL-DIG-093	SOIL/AGGREGATE	DTL
97	BNGESC	Dial Indicator (CBR Swell)	18145	DTL-DIG-089	SOIL/AGGREGATE	DTL
98	BNGESC	Dial Indicator (CBR Swell)	20609149	DTL-DIG-094	SOIL/AGGREGATE	DTL
99	BNGESC	Travelling Beam	333	DTL-TBM-001	ASPHALT	DTL
100	BNGESC	Steel Ruler	74	DTL-SLR-066	General	Operation (Site Using)



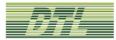
101	BNGESC	Steel Ruler	75	DTL-SLR-067	General	Operation (Site Using)
102	BNGESC	Steel Ruler	76	DTL-SLR-068	General	Operation (Site Using)
103	BNGESC	Steel Ruler	77	DTL-SLR-069	General	Operation (Site Using)
104	BNGESC	Steel Ruler	78	DTL-SLR-070	General	Operation (Site Using)
105	BNGESC	Steel Ruler	79	DTL-SLR-071	General	Operation (Site Using)
106	BNGESC	Steel Ruler	80	DTL-SLR-072	General	Operation (Site Using)
107	BNGESC	Steel Ruler	81	DTL-SLR-073	General	Operation (Site Using)
108	BNGESC	Steel Ruler	82	DTL-SLR-074	General	Operation (Site Using)
109	BNGESC	Steel Ruler	83	DTL-SLR-075	General	Operation (Site Using)
110	BNGESC	Steel Ruler	94	DTL-SLR-086	General	Operation (Site Using)
111	BNGESC	Steel Ruler	95	DTL-SLR-087	General	Operation (Site Using)

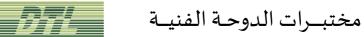


112	BNGESC	Steel Ruler	97	DTL-SLR-089	General	Operation (Site Using)
113	BNGESC	Concrete Pressure Meter	H190110	DTL-EM-005	General	Operation (Site Using)
114	BNGESC	Hydraulic Jack (Pressure Gauge)	190605	DTL-HPG-004	General	Operation (Site Using)
115	BNGESC	Dial Indicator	13469	DTL-DIG-164	General	Operation (Site Using)
116	BNGESC	Dial Indicator	13979	DTL-DIG-099	General	Operation (Site Using)
117	BNGESC	Dial Indicator	13999	DTL-DIG-165	General	Operation (Site Using)
118	BNGESC	Dial Indicator (CBR Swell)	18179	DTL-DIG-091	SOIL/AGGREGATE	DTL
119	BNGESC	Elcometer 3120 Shore Durometer	61994	DTL-HT-004	ROAD-MARKING	DTL
120	BNGESC	Thermocouple K Type Probe	1	DTL-TH-257	Master Store	DTL
121	BNGESC	Concrete Dial Pocket Penetrometer	1	DTL-CPP-001	General	Operation (Site Using)
122	BNGESC	Precision Hygro- Thermometer	140600870	DTL-TH-177	Master Store	DTL
123	BNGESC	Concrete Dial Pocket Penetrometer	2	DTL-CPP-002	General	Operation (Site Using)
124	BNGESC	Vacuum Degassing Oven	99482	DTL-VDO-001	BITUMEN	DTL



125	BNGESC	Square Mounting Frame	N/A	DTL-GTX-008- 004	GEO-TEXTILE	DTL
126	BNGESC	Steel Cylinder	N/A	DTL-GTX-008- 003-2	GEO-TEXTILE	DTL
127	BNGESC	Steel Cylinder	N/A	DTL-GTX-008- 003-3	GEO-TEXTILE	DTL
128	BNGESC	Measuring Cylinder	N/A	DTL-GTX-004- 01	GEO-TEXTILE	DTL
129	BNGESC	Circular Mounting Frame	N/A	DTL-GTX-008- 005	GEO-TEXTILE	DTL
130	BNGESC	Rolling Thin Film Oven	1322-16	DTL-RTFO-001	BITUMEN	DTL
131	BNGESC	Rotary Evaporator Vacuum	151201-400457	DTL-REV-001	BITUMEN	DTL
132	BNGESC	Digital Hot Air Drying Oven	20160513002	DTL-OVEN-027	BITUMEN	DTL
133	BNGESC	Digital Thermometer	391	DTL-TH-146	Master Store	DTL
134	BNGESC	KOEHLER K17490 Abel Flash Point Tester	K1749010030B	DTL-TOC-007	ROAD-MARKING	DTL
135	BNGESC	Digital Hot Air Drying Oven	N/A	DTL-OVEN-017	BITUMEN	DTL
136	BNGESC	Digital Flow Meter	11023-3	DTL-FLM-003	BITUMEN	DTL
137	BNGESC	Higher Precision Digital Thermometer	18151848	DTL-TH-170	BITUMEN	DTL
138	BNGESC	Thickness Gauge with Parallel Adjustment	2019125 (18219725)	DTL-GTX-016	GEO-TEXTILE	DTL
139	BNGESC	Dial Pressure Gauge	212739-13-97	DTL-PSG-003	BITUMEN	DTL





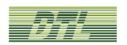
140	BNGESC	DSR Accessories	25mm Top Plate 49297	DTL-DSRAP-002	BITUMEN	DTL
141	BNGESC	Feeler Gauge	2611198180	DTL-FG-021	General	QBC Site
142	BNGESC	Steel Ruler	33	DTL-SLR-019	General	Operation (Site Using)
143	BNGESC	Depth Gauge with Settting Piece	B00207N658-A	DTL-DEG-001	Master Store	DTL
144	BNGESC	Laser Infrared Thermometer	E7092013112	DTL-TH-225	General	QBC Site
145	BNGESC	Laser Infrared Thermometer	E7092013187	DTL-TH-227	CONCRETE/CEME NT	DTL
146	BNGESC	Tubular Impact Tester	306015	DTL-TIT-001	ROAD-MARKING	DTL
147	BNGESC	Adhesion Tester	AT17287	DTL-POFF-003	ROAD-MARKING	DTL
148	BNGESC	Steel Ruler	MS-03	DTL-MS-003	ASPHALT	DTL
149	BNGESC	Digital Water Bath	2	DTL-WBATH- 029	ASPHALT	DTL
150	BNGESC	Rotational Viscometer	8684793	DTL-RV-001	BITUMEN	DTL
151	BNGESC	Marshall Compactor (Type- 2)	H-1360A-2	DTL-MC-010	ASPHALT	DTL
152	BNGESC	Marshall Compactor (Type- 2)	H-1360A-4	DTL-MC-013	ASPHALT	DTL
153	BNGESC	Muffle Furnace	N/A	DTL-MF-003	CHEMICAL	DTL
154	BNGESC	Thermo Hygro Clock	21	DTL-TH-163	General	Operation (Site Using)



155	BNGESC	Digital Folding Thermometer	190712094	DTL-TH-343	CONCRETE/CEME NT	DTL
156	BNGESC	Compression Machine	200221H	DTL-CM-011-B	CONCRETE/CEME NT	DTL
157	BNGESC	Compression Machine	200222H	DTL-CM-011-A	CONCRETE/CEME NT	DTL
158	BNGESC	Digital Folding Thermometers	335724139	DTL-TH-062	General	Operation (Site Using)
159	BNGESC	Anemometer Barometer	AG.16397	DTL-AHB-001	ROAD-MARKING	DTL
160	BNGESC	Point Load Apparatus	6087	DTL-PLM-003	SOIL/AGGREGATE	DTL
161	ABS GROUP INC.	Diesel Powered Air Compressor	22106257	DTL-ACOM-003	GEO-TECHNICAL	DTL
162	BNGESC	Digital Indicator	N/A	DTL-DDS-001	CONCRETE/CEME NT	DTL
163	BNGESC	Sand Equivalent Apparatus	1,2,3	DTL-SESA-004	General	Sand & Rock Site
164	BNGESC	Dial Indicator (CBR Swell)	17229	DTL-DIG-136	General	QBC Site
165	BNGESC	Dial Indicator (CBR Swell)	17248	DTL-DIG-141	General	QBC Site
166	BNGESC	CBR Swell Dial Gauge	17323	DTL-DIG-137	General	QBC Site
167	BNGESC	Dial Indicator	173555791	DTL-CBR-FTS- 002E	General	Operation (Site Using)
168	BNGESC	Dial Indicator (CBR Swell)	17467	DTL-DIG-139	General	QBC Site
169	BNGESC	Dial Indicator (CBR Swell)	17528	DTL-DIG-132	General	QBC Site



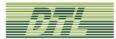
170	BNGESC	Dial Indicator (CBR Swell)	17618	DTL-DIG-140	General	QBC Site
171	BNGESC	Load Ring	H-4212	DTL-CBR-FTS- 002D	General	Operation (Site Using)
172	BNGESC	12 Channel Data Logger	H375724	DTL-TDL-011	General	QBC Site
173	BNGESC	Digital Indicator	LIN 7642010	DTL-DIG-038	General	QBC Site
174	BNGESC	Digital Indicator	LIN 7642031	DTL-DIG-054	General	QBC Site
175	BNGESC	Digital Caliper	LIN 7642153	DTL-DC-014	General	QBC Site
176	BNGESC	Digital Caliper	LIN77800036	DTL-DC-033	General	QBC Site
177	BNGESC	Digital Thermohygrometer	3	DTL-TH-122	General	QBC Site
178	BNGESC	Digital Thermohygrometer	13	DTL-TH-155	General	QBC Site
179	BNGESC	Digital Timer	13	DTL-SWH-057	General	QBC Site
180	BNGESC	Anchorage Shank Tension Tester	1118	DTL-ATT-001	General	Operation (Site Using)
181	BNGESC	Digital Thermometer	131101795	DTL-TH-111	General	QBC Site
182	BNGESC	Digital Folding Thermometer	150413508	DTL-TH-238	General	QBC Site
183	BNGESC	Digital Folding Thermometer	150413523	DTL-TH-239	General	QBC Site
184	BNGESC	Digital Folding Thermometer	150413531	DTL-TH-240	General	QBC Site

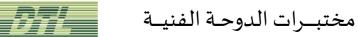


185	BNGESC	Digital Thermometer with Probe	34762764/507	DTL-TH-034	General	QBC Site
186	BNGESC	Digital Thermometer with Probe	34762813/507	DTL-TH-107	Master Store	DTL
187	BNGESC	Stop Watch	401Q09R-A	DTL-SWH-046	General	QBC Site
188	BNGESC	Precision Thermometer 2- Channel P795	79519020171	DTL-TH-461	CONCRETE/CEME NT	DTL
189	BNGESC	Digital Thermometer	84	DTL-TH-108	General	QBC Site
190	BNGESC	Digital Thermohygrometer	84	DTL-TH-023	General	QBC Site
191	PILE DYNAMI CS INC.	Pressure Meter Test System-Probe (Accessories)	037E1900002	DTL-PTS-001.2	GEO-TECHNICAL	DTL
192	BNGESC	Stopwatch	112Q09R	DTL-SWH-038	General	QBC Site
193	BNGESC	Stopwatch	401Q09R-B	DTL-SWH-045	General	QBC Site
194	BNGESC	Sand Equivalent Shaker	13/000267	DTL-SES-001	SOIL/AGGREGATE	DTL
195	BNGESC	Feeler Gauge	2611198183	DTL-FG-022	Master Store	DTL
196	BNGESC	Straight Edge with Graduated Wedge	905	DTL-SB-012	ASPHALT	DTL
197	BNGESC	Digital Shore A Hardness Tester	N577700	DTL-HT-002	ROAD-MARKING	DTL
198	BNGESC	CBR Swell Dial Gauge	17575	DTL-DIG-138	General	QBC Site
199	BNGESC	Right Angle	4609732226	DTL-RA-006	General	QBC Site



200	BNGESC	Steel Ruler	49	DTL-SLR-041	CONCRETE/CEME NT	DTL
201	BNGESC	Casagrande Apparatus Set	1-4645-1606	DTL-LLA-004	General	QBC Site
202	BNGESC	Electronic Balance	121394015	DTL-BAL-089	General	QBC Site
203	BNGESC	Compressive Testing Machine	14/001663	DTL-CM-010	General	QBC Site
204	BNGESC	Digital Folding Thermometer	150413545	DTL-TH-237	General	QBC Site
205	BNGESC	Electronic Balance	171021001	DTL-BAL-071	General	QBC Site
206	BNGESC	Digital Electric Oven	17C152	DTL-OVEN-043	General	QBC Site
207	BNGESC	Digital Electric Oven	17C189	DTL-OVEN-038	General	QBC Site
208	BNGESC	Digital Electric Oven	17C190	DTL-OVEN-040	General	QBC Site
209	BNGESC	Digital Water Bath	33-WB	DTL-WBATH- 019	General	QBC Site
210	BNGESC	Digital Thermometer	33752434/804-1	DTL-TH-057	General	Operation (Site Using)
211	BNGESC	Electronic Balance	B652517928	DTL-BAL-067	General	Operation (Site Using)
212	BNGESC	Electronic Balance	B741798164	DTL-BAL-080	General	QBC Site
213	BNGESC	Electronic Balance	BL 161072004	DTL-BAL-045	General	QBC Site
214	BNGESC	Electronic Balance	BL151072075	DTL-BAL-047	General	QBC Site
215	BNGESC	Centrifuge Extractor	H-160101	DTL-CEM-012	General	QBC Site

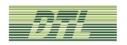




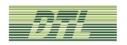
216	BNGESC	Marshall Compactor	H170601	DTL-MC-016	General	QBC Site
217	BNGESC	Filterless Extractor Machine	M280-1-30613252	DTL-FLC-006	General	QBC Site
218	BNGESC	Compression Testing Machine	11007585	DTL-CM-007	General	Al Ali Site Lab
219	BNGESC	Concrete Air Meter	540234FO	DTL-EM-007	General	Operation (Site Using)
220	BNGESC	Concrete Air Meter	5402F1EY	DTL-EM-008	General	Operation (Site Using)
221	BNGESC	Digitlal Electric Oven	4.00009E+11	DTL-OVEN-007	SOIL/AGGREGATE	DTL
222	BNGESC	Micro Deval Machine	1020F	DTL-MDA-001	SOIL/AGGREGATE	DTL
223	BNGESC	Casagrande Apparatus	13000771	DTL-LLA-003	SOIL/AGGREGATE	DTL
224	BNGESC	Digital Electric Oven	1641	DTL-OVEN-018	ASPHALT	DTL
225	BNGESC	Compression Testing Machine	1796-8-1544	DTL-CM-008	SOIL/AGGREGATE	DTL
226	BNGESC	Electronic Balance	B702570173	DTL-BAL-065	General	Operation (Site Using)
227	BNGESC	Digital Cement Colorimeter Stirrer with Motor (Humboldt)	N/A	DTL-DCC-001	CONCRETE/CEME NT	DTL
228	BNGESC	Digital Electric Oven	R45138	DTL-OVEN-030	ASPHALT	DTL
229	BNGESC	Digital Timer	16	DTL-SWH-061	General	Operation (Site Using)



230	BNGESC	Analog Resistance Meter	2313	DTL-ARM-001	SOIL/AGGREGATE	DTL
231	BNGESC	Electronic Balance	B752195642	DTL-BAL-079	General	Operation (Site Using)
232	BNGESC	Digital Hygrometer	2	DTL-TH-199	General	Operation (Site Using)
233	BNGESC	Digital Temperature Hygrometer	190601954	DTL-TH-370	ASPHALT	DTL
234	BNGESC	Electronic Balance	AE 430339	DTL-BAL-020	General	Sand & Rock Site
235	BNGESC	Digital Thermohygrometer	12	DTL-TH-154	General	Sand & Rock Site
236	BNGESC	Electronic Balance	160656467	DTL-BAL-064	General	Operation (Site Using)
237	BNGESC	Straight Edge With Wedge	906/907	DTL-SB-003	General	Operation (Site Using)
238	BNGESC	Bending Beam Rheometer - (Pressure Gauge BBR)	15-13868-2	DTL-BBRAP-001	BITUMEN	DTL
239	BNGESC	Digital Vacuum Gauge	23V735	DTL-VCG-007	CONCRETE/CEME NT	DTL
240	BNGESC	Printing Temperature Recorder	D13280231	DTL-TDL-007	CHEMICAL	DTL
241	BNGESC	Digital Refrigerator	FYL-18-093056	DTL-FZR-014	Microbiology	DTL
242	BNGESC	Rapid Chloride Migration Tester	NJ(2007)0220A	DTL-RCMT-002	CONCRETE/CEME NT	DTL



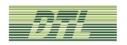
243	BNGESC	Moisture Induced Sensitivity Test (MIST) Apparatus	62	DTL-MIST-001	ASPHALT	DTL
244	BNGESC	Square Wet Film Gauge	N/A	DTL-WFG-001	ROAD-MARKING	DTL
245	BNGESC	Digital Thermo Hygrometer	190602023	DTL-TH-439	General	QBC Site
246	BNGESC	Digital Thermo Hygrometer	190602024	DTL-TH-440	General	QBC Site
247	BNGESC	Digital Thermo Hygrometer	190602028	DTL-TH-444	General	QBC Site
248	BNGESC	Digital Folding Thermometer	190712096	DTL-TH-345	General	Operation (Site Using)
249	BNGESC	Digital Folding Thermometer	190712098	DTL-TH-347	General	Operation (Site Using)
250	BNGESC	Digital Folding Thermometer	190712099	DTL-TH-348	General	Operation (Site Using)
251	BNGESC	Digital Folding Thermometer	190712100	DTL-TH-349	General	Operation (Site Using)
252	BNGESC	Digital Folding Thermometer	190712101	DTL-TH-350	General	Operation (Site Using)
253	BNGESC	Electronic Balance	B702578350	DTL-BAL-066	General	Operation (Site Using)
254	BNGESC	Dial Gauge (CBR Swell)	17217	DTL-DIG-154	General	QBC Site
255	BNGESC	CBR Swell Dial Gauge (For Soaking)	17487	DTL-DIG-153	General	QBC Site



256	BNGESC	12 Channel Data Logger	H-404394	DTL-TDL-012	CHEMICAL	DTL
257	BNGESC	12 Channel Data Logger	H-404395	DTL-TDL-013	CONCRETE/CEME NT	DTL
258	BNGESC	12 Channel Data Logger	H-404398	DTL-TDL-014	CONCRETE/CEME NT	DTL
259	BNGESC	Feeler Gauge	10	DTL-FG-010	General	QBC Site
260	BNGESC	Stop Watch	104Q06R	DTL-SWH-052	General	Manateq Site
261	BNGESC	Dial Indicator	161206609	DTL-CBR-FTS- 001E	General	Operation (Site using)
262	BNGESC	Load Ring	3947	DTL-CBR-FTS- 001D	General	Operation (Site Using)
263	BNGESC	Wheel Tracker	CS9000-032-16	DTL-WT-001	ASPHALT	DTL
264	BNGESC	Pocket Fold Up Thermometer	150413511	DTL-TH-094	General	Operation (Site Using)
265	BNGESC	Marshall Compactor	H-181102	DTL-MC-019	ASPHALT	DTL
266	BNGESC	Filterless Centrifuge Extractor	M280.1-31115330	DTL-FLC-001	ASPHALT	DTL
267	BNGESC	Digital Drying Oven	20160803002	DTL-OVEN-050	General	Sand & Rock Site
268	BNGESC	Digital Timer	12	DTL-SWH-055	BITUMEN	DTL
269	BNGESC	Digital Folding Thermometer	150413521	DTL-TH-093	General	Operation (Site Using)



270	BNGESC	Digital Thermohygrometer	190601981	DTL-TH-397	General	Operation (Site Using)
271	BNGESC	Digital Thermohygrometer	190601985	DTL-TH-401	General	Operation (Site Using)
272	BNGESC	Digital Thermohygrometer	190601989	DTL-TH-405	General	Operation (Site Using)
273	BNGESC	Digital Thermohygrometer	190602000	DTL-TH-416	General	Operation (Site Using)
274	BNGESC	Digital Thermohygrometer	190602027	DTL-TH-443	General	Operation (Site Using)
275	BNGESC	Digital Thermometer with Probe	33735615/704	DTL-TH-061	General	Operation (Site Using)
276	BNGESC	Level Staff	N/A	DTL-MS-007	General	DTL
277	BNGESC	12 Channel Data Logger	H-307293	DTL-TDL-001	General	Operation (Site Using)
278	ABS GROUP INC.	Diesel Engine Powered Truck Mounted Hydraulic Drilling Rig	69715	DTL-RIG-05	GEO-TECHNICAL	DTL
279	ABS GROUP INC.	Diesel Engine Powered Crawler Mounted Hydraulic Drilling Rig	99111	DTL-RIG-02	GEO-TECHNICAL	DTL
280	BNGESC	Digital Folding Thermometer	150413536	DTL-TH-092	General	Operation (Site Using)



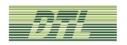
281	BNGESC	Air Flow Meter	101325PA	DTL-FLM-004	BITUMEN	DTL
282	BNGESC	Digital Folding Thermometer	150413529	DTL-TH-090	General	Operation (Site Using)
283	BNGESC	Steel Ruler	38	DTL-SLR-024	General	Operation (Site Using)
284	BNGESC	Digital Folding Thermometer	E13082133	DTL-TH-181	General	Operation (Site Using)
285	BNGESC	Level Staff	N/A	DTL-MS-006	General	DTL
286	BNGESC	Stop Watch	401Q09R B1	DTL-SWH-054	General	Operation (Site Using)
287	BNGESC	12 Channel Data Logger	H-285011	DTL-TDL-003	General	Operation (Site Using)
288	BNGESC	Digital Caliper	1112171220	DTL-DC-035	ASPHALT	DTL
289	BNGESC	Feeler Gauge	N/A	DTL-FG-017	Master Store	DTL
290	BNGESC	Digital Folding Thermometer	150413533	DTL-TH-091	General	Operation (Site Using)
291	BNGESC	12 Channel Data Logger	H-307291	DTL-TDL-005	General	Operation (Site Using)
292	BNGESC	Level Staff	1	DTL-MS-005	General	DTL
293	BNGESC	Linear Variable Differential Transformer (LVDT)	N/A	N-A	General	SMEET PRECAST



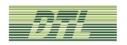
		Displacement Transducer				
294	BNGESC	CBR Testing Machine	251821	DTL-CBR-004	General	QBC Site
295	BNGESC	Digital Drying Oven	20160513005	DTL-OVEN-028	ROAD-MARKING	DTL
296	BNGESC	Ultrasonic Coating Thickness Gauge	398782	DTL-CTG-006	ROAD-MARKING	DTL
297	BNGESC	Analog Pressure Gauge	411858412	DTL-ATK-001-A	STEEL	DTL
298	BNGESC	Digital Electric Oven	12K186	DTL-OVEN-012	ASPHALT	DTL
299	BNGESC	Digital Drying Oven	12K188	DTL-OVEN-013	ASPHALT	DTL
300	BNGESC	Digital Drying Oven	13/000274	DTL-OVEN-001	ASPHALT	DTL
301	BNGESC	Centrifuge Extractor	H-140701	DTL-CEM-006	ASPHALT	DTL
302	BNGESC	IR Thermometer	12064225	DTL-TH-198	ASPHALT	DTL
303	BNGESC	Piercing Clamp	N/A	DTL-GTX-009- 003	GEO-TEXTILE	DTL
304	BNGESC	Bursting Clamp	N/A	DTL-GTX-009- 004	GEO-TEXTILE	DTL
305	BNGESC	Ring Clamp Holder	N/A	DTL-GTX-009- 005	GEO-TEXTILE	DTL
306	BNGESC	Test Panel	N/A	DTL-GTX-009- 010	GEO-TEXTILE	DTL
307	BNGESC	Electronic Fabric Strength Tester	N/A	DTL-GTX-009- 007	GEO-TEXTILE	DTL
308	BNGESC	Stripping Clamp	N/A	DTL-GTX-009- 009	GEO-TEXTILE	DTL
309	BNGESC	Tensile Fixture Clamps	N/A	DTL-GTX-009- 006	GEO-TEXTILE	DTL



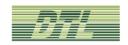
310	BNGESC	Rubber Covered Roller	N/A	DTLGTX-009- 010 (1)	GEO-TEXTILE	DTL
311	BNGESC	Pressure Foot	N/A	DTL-GTX-005- 003	GEO-TEXTILE	DTL
312	BNGESC	Grab Sample Clamps	N/A	DTL-GTX-009- 002	GEO-TEXTILE	DTL
313	BNGESC	Strip Sample Clamps	N/A	DTL-GTX-009- 001	GEO-TEXTILE	DTL
314	BNGESC	Bursting Plunger	N/A	DTL-GTX-008- 003	GEO-TEXTILE	DTL
315	BNGESC	Pressure Foot	N/A	DTLGTX-003	GEO-TEXTILE	DTL
316	BNGESC	Standard Weights	N/A	DTL-GTX003	GEO-TEXTILE	DTL
317	BNGESC	Coating Thickness Gauge	NK16883	DTL-CTG-001	STEEL	DTL
318	BNGESC	Feeler Gauge	W2868B	DTL-GTX-003- 009	GEO-TEXTILE	DTL
319	BNGESC	Steel Ruler	32	DTL-SLR-018	GEO-TEXTILE	DTL
320	BNGESC	Sound Level Meter	I-31056	DTL-SLM-001	Master Store	DTL
321	BNGESC	Concrete Cover Meter	PS02-002-0968	DTL-CCM-001	CONCRETE/CEME NT	DTL
322	BNGESC	Digital Caliper	D47332	DTL-DC-007	Master Store	DTL
323	BNGESC	Digital Caliper	DF 160526101	DTL-DC-010	Master Store	DTL
324	BNGESC	Dial Indicator	51242	DTL-DIG-102	General	QBC Site
325	BNGESC	Dial Indicator	13223	DTL-DIG-101	General	QBC Site
326	BNGESC	Dial Indicator	14320	DTL-DIG-100	General	QBC Site



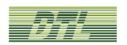
327	BNGESC	Computer Control Universal Testing Machine	190693	DTL-STM-002	STEEL	DTL
328	BNGESC	Digital Drying Oven	20200401001	DTL-OVEN-058	SOIL/AGGREGATE	DTL
329	BNGESC	Digital Drying Oven	20200401002	DTL-OVEN-059	SOIL/AGGREGATE	DTL
330	BNGESC	Electronic Fabric Strength Tester	N/A	DTL-GTX-009	GEO-TEXTILE	DTL
331	BNGESC	Electronic Fabric Strength Tester	N/A	DTL-GTX-009- 008	GEO-TEXTILE	DTL
332	BNGESC	Electronic Balance	N/A	DTL-GTX-012	GEO-TEXTILE	DTL
333	BNGESC	Compressive Electronic Strength Tester	N/A	DTL-GTX-008	GEO-TEXTILE	DTL
334	BNGESC	Digital Thermometer with Probe	170800760	DTL-TH-464	General	Operation (Site Using)
335	BNGESC	Digital Thermometer with Probe	170800847	DTL-TH-463	General	Operation (Site Using)
336	BNGESC	Steel Ruler	50	DTL-SLR-042	Master Store	DTL
337	BNGESC	Travelling Beam	370	DTL-TB-001	ASPHALT	DTL
338	BNGESC	Particle Charge Apparatus Tester	18602862	DTL-PCA-002	BITUMEN	DTL
339	BNGESC	RTD Digital Thermometer	131101803	DTL-TH-110	General	Operation (Site Using)
340	BNGESC	Pressure Weight	N/A	DTL-GTX-005	GEO-TEXTILE	DTL
341	BNGESC	Measuring Cone	N/A	DTL-GTX-010- 001	GEO-TEXTILE	DTL



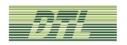
342	BNGESC	Geotextile Dynamic Perforated Tester	N/A	DTL-GTX-010	GEO-TEXTILE	DTL
343	BNGESC	Electronic Balance	121394014	DTL-BAL-084	Master Store	DTL
344	BNGESC	Compression Testing Machine	14/001664	DTLCM-001	CONCRETE/CEME NT	DTL
345	BNGESC	Compression Testing Machine	14/001664	DTL-CM-001	CONCRETE/CEME NT	DTL
346	BNGESC	Softening Point Apparatus	60038630	DTL-SOF-001	BITUMEN	DTL
347	BNGESC	Saybolt Viscometer	K2142010055	DTL-SAV-002	BITUMEN	DTL
348	BNGESC	Kinematic Viscometer Bath	N/A	DTL-VBATH-001	BITUMEN	DTL
349	BNGESC	Electric Oven	Y2B022	DTL-OVEN-015	ASPHALT	DTL
350	BNGESC	Mobile Weigh Fork Scale	N/A	DTL-BAL-094	GEO-TEXTILE	DTL
351	BNGESC	Control Manhole Cover Load	170428016	DTL-GTX-007	STEEL	DTL
352	BNGESC	Hot Air Drying Oven	20160803003	DTL-OVEN-031	CHEMICAL	DTL
353	BNGESC	Thermocouple Sensor	45328	DTL-TH-096	CHEMICAL	DTL
354	BNGESC	Digital Folding Thermometer	190712064	DTL-TH-313	General	Operation (site using)
355	BNGESC	Digital Folding Thermometer	190712066	DTL-TH-315	General	Operation (Site using)
356	BNGESC	Digital Folding Thermometer	190712068	DTL-TH-317	General	Operation (site using)



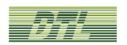
357	BNGESC	Digital Folding Thermometer	190712071	DTL-TH-320	General	Operation (Site Using)
358	BNGESC	Digital Folding Thermometer	190712074	DTL-TH-323	General	Operation (site using)
359	BNGESC	Coating Thickness Gauge	822424	DTL-CTG-002	GEO-TEXTILE	DTL
360	BNGESC	Digital Weighing Indicator	H901C1059	DTL-BAL-093	GEO-TEXTILE	DTL
361	BNGESC	Megger Earth Tester	101537410	DTL-GTKIT-001	SOIL/AGGREGATE	DTL
362	BNGESC	Digital Thermometer with Probe	33740760/709	DTL-TH-035	General	Operation (Site Using)
363	BNGESC	Density Cup For Emulsified Asphalt	WG-SS-83.2/T	DTL-DCP-001	BITUMEN	DTL
364	BNGESC	UV Weathering Tester	13111202	DTL-OVEN-046	ROAD-MARKING	DTL
365	BNGESC	Digital Point Load	14-13837	DTL-PLM-002	SOIL/AGGREGATE	DTL
366	BNGESC	CF-B CONCRETE CURING TANK	200618	DTL-CT-007	CONCRETE/CEME NT	Concrete Section
367	BNGESC	Geomembrane Thickness Gauge	N/A	DTL-GTX-014	GEO-TEXTILE	DTL
368	BNGESC	Environmental Tester	N/A	DTL-GTX-011	GEO-TEXTILE	DTL
369	BNGESC	Fabric Moisture Permeability Tester	N/A	DTL-GTX-002	GEO-TEXTILE	DTL
370	BNGESC	Geotextile Effective Aperture Tester	N/A	DTL-GTX-001	GEO-TEXTILE	DTL
371	BNGESC	Fabric Thickness Gauge	N/A	DTL-GTX-003	GEO-TEXTILE	DTL



372	BNGESC	Straight Edge	N/A	DTL-SB-026	CONCRETE/CEME NT	Al Ali Site Lab
373	BNGESC	Depth Gauge	Y068193200	DTL-DEG-002	Master Store	DTL
374	BNGESC	Rebound Hammer	4041-90497	DTL-HMR-005	General	Opeartion (Site Using)
375	BNGESC	Sound Level Meter	561002	DTL-SLM-003	Environment	DTL
376	BNGESC	Hygro Thermometer	9	DTL-TH-151	CONCRETE/CEME NT	DTL
377	BNGESC	Measuring Scale	2	DTL-MS-001	CONCRETE/CEME NT	DTL
378	BNGESC	Digital Temperature Hygrometer	190601955	DTL-TH-371	CONCRETE/CEME NT	DTL
379	BNGESC	Digital Thermohygrometer	190601983	DTL-TH-399	ASPHALT	DTL
380	BNGESC	Digital Caliper	N/A	DTL-DC-043	ASPHALT	DTL
381	BNGESC	Diall Pressure Gauge	90274	DTL-RCA-001	CHEMICAL	DTL
382	BNGESC	Electric Oven	12K189	DTL-OVEN-010	SOIL/AGGREGATE	DTL
383	BNGESC	Digital Eletric Oven	12K193	DTL-OVEN-022	SOIL/AGGREGATE	DTL
384	BNGESC	Electric Oven	12K194	DTL-OVEN-008	SOIL/AGGREGATE	DTL
385	BNGESC	Digital Water Bath	13/000279	DTL-WBATH- 009	ASPHALT	DTL
386	BNGESC	Dial Gauge	17360	DTL-DIG-146	General	QBC Site
387	BNGESC	Dial Gauge	17516	DTL-DIG-143	General	QBC Site



388	BNGESC	Dial Gauge	17576	DTL-DIG-142	General	QBC Site
389	BNGESC	Dial Gauge	17596	DTL-DIG-144	General	QBC Site
390	BNGESC	Dial Gauge	17620	DTL-DIG-145	General	QBC Site
391	BNGESC	Digital Thermometer with Probe	34762843/507	DTL-TH-241	General	QBC Site
392	BNGESC	Digital Water Bath	B052-02/AB/004	DTL-WBATH- 002	ASPHALT	DTL
393	BNGESC	Digital Water Bath	F10201228	DTL-WBATH- 010	ASPHALT	DTL
394	BNGESC	Centrifuge Extractor	H-150901	DTL-CEM-018	ASPHALT	DTL
395	BNGESC	Centrifuge Extractor	H-150902	DTL-CEM-007	ASPHALT	DTL
396	BNGESC	GD400 High Speed Disperser	N/A	DTL-HDM-007	ROAD-MARKING	DTL
397	BNGESC	Water Boiler	SB-WB207	DTL-WBATH- 005	CONCRETE/CEME NT	DTL
398	BNGESC	Digital Drying Oven	Y3J127	DTL-OVEN-047	ASPHALT	DTL
399	BNGESC	Analog Electric Oven	Y4B163	DTL-OVEN-023	ASPHALT	DTL
400	BNGESC	Level Staff	55	DTL-MS-004	SOIL/AGGREGATE	DTL
401	BNGESC	Methylene Blue Test Set	N/A	DTL-MBT-001	CHEMICAL	DTL
402	BNGESC	Digital Drying Oven	10F125	DTL-OVEN-016	BITUMEN	DTL
403	BNGESC	Saybolt Viscometer	11002518	DTL-SAV-001	BITUMEN	DTL



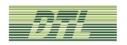
404	BNGESC	Digital Drying Oven	12010665	DTL-OVEN-033	CONCRETE/CEME NT	DTL
405	BNGESC	Digital Drying Oven	12K191	DTL-OVEN-011	ASPHALT	DTL
406	TISSCO	Water Flow Meter	190388975	DTL-GEO-WM- 002	GEO-TECHNICAL	DTL
407	BNGESC	Digital Thermometer with Probe	34700755/107	DTL-TH-019	ASPHALT	DTL
408	BNGESC	Digital Thermometer with Probe	34762838/507	DTL-TH-024	ASPHALT	DTL
409	BNGESC	Retroreflectomete r Horizontal	COU17478	DTL-REFL-006	ROAD-MARKING	DTL
410	BNGESC	Digital Thermometer with Probe	D10190220	DTL-TH-018	ASPHALT	DTL
411	BNGESC	Laboratory Freezer	FYL-14ZD-054283	DTL-FZR-001	BITUMEN	DTL
412	BNGESC	Minireflectro Easylux Verticle	MV101720	DTL-REFL-005	ROAD-MARKING	DTL
413	BNGESC	Particle Charge Apparatus	N/A	DTL-PCA-001	BITUMEN	DTL
414	BNGESC	Road Stud Retroreflectomete r	TAG01314	DTL-REFL-001	ROAD-MARKING	DTL
415	BNGESC	Digital Electric Oven	Y6J151	DTL-OVEN-006	SOIL/AGGREGATE	DTL
416	BNGESC	Electronic Balance	160656449	DTL-BAL-058	General	AUCC Site Lab.
417	BNGESC	Digital Flow Gauge	193441811	DTL-FLG-002	ASPHALT	DTL
418	BNGESC	Load Ring	3976	DTL-CBR-FTS- 001C	General	Operation (Site Using)



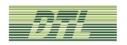
419	BNGESC	Gyratory Compactor Mold	8267, 8118, 8120	DTL-GMO-009	ASPHALT	DTL
420	BNGESC	Marshall Mould	051-058	DTL-MM-051- 058	ASPHALT	DTL
421	BNGESC	Steel Ruler	6	DTL-MS-002	ASPHALT	DTL
422	BNGESC	DCP Device	N/A	DTL-GEO-DCP- 001	GEO-TECHNICAL	DTL
423	BNGESC	Dial Indicator	14558	DTL-DIG-029	SOIL/AGGREGATE	DTL
424	BNGESC	Dial Indicator	15037	DTL-DIG-026	SOIL/AGGREGATE	DTL
425	BNGESC	Dial Indicator	15174	DTL-DIG-028	SOIL/AGGREGATE	DTL
426	BNGESC	Dial Indicator	15178	DTL-DIG-019	SOIL/AGGREGATE	DTL
427	BNGESC	Dial Indicator	15181	DTL-DIG-035	SOIL/AGGREGATE	DTL
428	BNGESC	Dial Indicator	15209	DTL-DIG-030	SOIL/AGGREGATE	DTL
429	BNGESC	Dial Indicator	15606	DTL-DIG-033	SOIL/AGGREGATE	DTL
430	BNGESC	Dial Indicator	15622	DTL-DIG-027	SOIL/AGGREGATE	DTL
431	BNGESC	Compression Machine (Stability Test and Platen Flatness)	1796-8-2345	DTL-CM009	CONCRETE/CEME NT	DTL
432	BNGESC	Thermo Anemometer	180624963	DTL-TAM-001	BITUMEN	DTL
433	BNGESC	Compression Machine (Stability Test and Platen Flatness)	1890-1-1565	DTL-CM005	CONCRETE/CEME NT	DTL



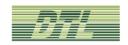
434	BNGESC	Digital Folding Thermometer	190712095	DTL-TH-344	General	Operation (Site Using)
435	BNGESC	Digital Folding Thermometer	190712097	DTL-TH-346	General	Operation (Site Using)
436	BNGESC	Digital Folding Thermometer	190712103	DTL-TH-352	General	Operation (Site Using)
437	BNGESC	Digital Folding Thermometer	190712104	DTL-TH-353	General	Operation (Site Using)
438	BNGESC	Digital Folding Thermometer	190712105	DTL-TH-354	General	Operation (Site Using)
439	BNGESC	Electronic Balance	BL131011314	DTL-BAL-015	STEEL	DTL
440	BNGESC	Pressure Gauge	N/A	DTL-PSG-011	CONCRETE/CEME NT	DTL
441	BNGESC	Dial Gauge	181870543	DTL-DIG-148	General	Operation (Site Using)
442	BNGESC	Straight Edge with Wedge	01477 / 656	DTL-SE-003	General	Operation (Site Using)
443	BNGESC	Pressure Gauge (Permeability)	I/C-025K503	DTL-CWPM-001- 2	CONCRETE/CEME NT	DTL
444	BNGESC	Pressure Gauge (Permeability)	I/C-025K503	DTL-CWPM-001- 1	CONCRETE/CEME NT	DTL
445	BNGESC	Pressure Gauge (Permeability)	N/A	DTL-CWPM-005- 2	CONCRETE/CEME NT	DTL
446	BNGESC	Pressure Gauge (Permeability)	N/A	DTL-CWPM-005- 1	CONCRETE/CEME NT	DTL
447	BNGESC	Pressure Gauge	N/A	DTL-PSG-004	BITUMEN	DTL



448	BNGESC	Pressure Gauge	N/A	DTL-PSG-005	BITUMEN	DTL
449	BNGESC	Micrometer Adjustable Applicator	SN 2091809002	DTL-MMA-001	ROAD-MARKING	DTL
450	BNGESC	Micrometer Adjustable Applicator	SN 2091812001	DTL-MMA-002	ROAD-MARKING	DTL
451	BNGESC	Thermometer Precisa	390	DTL-TH-145	CHEMICAL	DTL
452	BNGESC	Right Angle	916-406	DTL-RA-001	CONCRETE/CEME NT	DTL
453	BNGESC	Rotary Evaporator	07220870 / 400458	DTL-RE-001	BITUMEN	DTL
454	BNGESC	Digital Electric Oven	16/001311	DTL-OVEN-032	SOIL/AGGREGATE	DTL
455	BNGESC	Automatic Cement Mixer	M-095/KJ01	DTL-HDM-006	CONCRETE/CEME NT	DTL
456	BNGESC	Electronic Balance	1307EC301243	DTL-BAL-004	General	Operation (Site Using)
457	BNGESC	Digital Thermometer with Probe	160806365	DTL-TH-183	General	Operation (Site Using)
458	BNGESC	Digital Thermometer with Probe	170700191	DTL-TH-212	General	Operation (Site Using)
459	BNGESC	Digital Thermometer with Probe	170800816	DTL-TH-210	General	Operation (Site Using)
460	BNGESC	Digital Thermometer with Probe	170800817	DTL-TH-211	General	Operation (Site Using)



461	BNGESC	Digital Thermometer with Probe	170800840	DTL-TH-484	General	Operation (Site Using)
462	BNGESC	Digital Folding Thermometer	190712073	DTL-TH-322	General	Operation (Site Using)
463	BNGESC	Digital Folding Thermometer	190712075	DTL-TH-324	General	Operation (Site Using)
464	BNGESC	Digital Folding Thermometer	190712076	DTL-TH-325	General	Operation (Site Using)
465	BNGESC	Digital Folding Thermometer	190712078	DTL-TH-327	General	Operation (Site Using)
466	BNGESC	Digital Folding Thermometer	190712079	DTL-TH-328	General	Operation (Site Using)
467	BNGESC	Digital Folding Thermometer	190712080	DTL-TH-329	General	Operation (Site Using)
468	BNGESC	Digital Folding Thermometer	190712083	DTL-TH-332	General	Operation (Site Using)
469	BNGESC	Digital Folding Thermometer	190712087	DTL-TH-336	General	Operation (Site Using)
470	BNGESC	Digital Folding Thermometer	190712089	DTL-TH-338	General	Operation (Site Using)
471	BNGESC	Electronic Balance	1917011002	DTL-BAL-010	General	Sand & Rock Site
472	BNGESC	Laser Distance Meter	121211381	DTL-LDM-001	Master Store	DTL



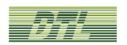
473	BNGESC	Penetration Needle	82,213,082,288,616,100, 000,000	DTL-PENN-002 TO 008	BITUMEN	DTL
474	BNGESC	PAV Cylindrical Pans	1 to 20	DTL-PCP-1 to 20	BITUMEN	DTL
475	BNGESC	Stop Watch	110Q03R	DTL-SWH-031	BITUMEN	DTL
476	BNGESC	Pressure Gauge (Permeability)	N/A	DTL-CWPM-002- 1	CONCRETE/CEME NT	DTL
477	BNGESC	Pressure Gauge	N/A	DTL-PSG-009	BITUMEN	DTL
478	BNGESC	Digital Caliper	N/A	DTL-DC-046	CONCRETE/CEME NT	DTL
479	BNGESC	Pressure Gauge (Permeability)	N/A	DTL-CWPM-002- 2	CONCRETE/CEME NT	DTL
480	BNGESC	Pressure Gauge	N/A	DTL-PSG-008	BITUMEN	DTL
481	BNGESC	Digital Caliper	N/A	DTL-DC-045	CONCRETE/CEME NT	DTL
482	BNGESC	Digital Thermometer with Probe	143977	DTL-TH-004	BITUMEN	DTL
483	BNGESC	Digital Thermometer with Probe	33752434/804	DTL-TH-053	General	Operation (Site Using)
484	BNGESC	Digital Thermometer with Probe	34762391/506	DTL-TH-001	BITUMEN	DTL
485	BNGESC	Digital Weighing Indicator	H901C1059	DTL-BAL-095	STEEL	DTL
486	BNGESC	Glass Thermometer	K94-592	DTL-TH-002	BITUMEN	DTL
487	BNGESC	Glass Thermometer	K94-659	DTL-TH-003	BITUMEN	DTL



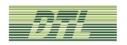
488	BNGESC	Digital Hygro- Thermometer	190602030	DTL-TH-446	ASPHALT	DTL
489	BNGESC	Digital Caliper	N/A	DTL-DC-044	ASPHALT	DTL
490	BNGESC	Electronic Balance	160656463	DTL-BAL-057	General	Opearatio n (Site Using)
491	BNGESC	Digital Drying Oven	12/001051	DTL-OVEN-004	CONCRETE/CEME NT	DTL
492	BNGESC	Curing Tank	200619	DTL-CT-008	SOIL/AGGREGATE	DTL
493	BNGESC	Marshall Testing Machine	Display=B043PN108/AC/0 001	DTL-MT-003	ASPHALT	DTL
494	BNGESC	Centrifuge Extractor	H-120401	DTL-CEM-005	ASPHALT	DTL
495	BNGESC	Proving Ring (Marshall loader)	Load Ring - 100-1831	DTL-PR-002	ASPHALT	DTL
496	BNGESC	Analog Drying Oven	Y5A102	DTL-OVEN-009	ASPHALT	DTL
497	BNGESC	Digital Drying Oven	Y5L130	DTL-OVEN-048	ASPHALT	DTL
498	BNGESC	Handheld Laser Particle Counter	24566	DTL-LPC-001	Environment	DTL
499	BNGESC	Digital Thermometer	34734630/311	DTL-TH-032	CHEMICAL	DTL
500	BNGESC	Personal Disometer	280412	DTL-PDM-003	General	NG STORE
501	BNGESC	Personal Disometer	282619	DTL-PDM-001	General	NG STORE
502	BNGESC	Digital Caliper	LIN619208	DTL-DC-015	Master Store	DTL
503	BNGESC	Feeler Gauge	N/A	DTL-FG-018	CONCRETE/CEME NT	DTL



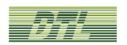
504	BNGESC	Gage Block (5mm)	120643	DTL-SLG-001-1	ROAD-MARKING	DTL
505	BNGESC	Digital Drying Oven	13/000275	DTL-OVEN-002	SOIL/AGGREGATE	DTL
506	BNGESC	Digital Water Bath	13/000278	DTL-WBATH- 008	SOIL/AGGREGATE	DTL
507	BNGESC	Gage Block (9mm)	132154	DTL-SLG-001-2	ROAD-MARKING	DTL
508	BNGESC	Gage Block (15mm)	140009	DTL-SLG-001-3	ROAD-MARKING	DTL
509	BNGESC	Electronic Balance	15302178	DTL-BAL-068	Master Store	DTL
510	BNGESC	Gage Block (25mm)	153212	DTL-SLG-001-4	ROAD-MARKING	DTL
511	BNGESC	Digital Thermometer	181387859	DTL-TH-456	SOIL/AGGREGATE	DTL
512	BNGESC	Direct Shear Apparatus	1885PL0044-46326	DTL-DSA-001	SOIL/AGGREGATE	DTL
513	BNGESC	Digital Indicator	19006245	DTL-GEO-RSV- 001-DG	GEO-TECHNICAL	DTL
514	BNGESC	Marshall Compactor	N/A	DTL-MC-009	ASPHALT	DTL
515	BNGESC	Slake Durability Apparatus	N/A	DTL-GEO-SDA- 001	SOIL/AGGREGATE	DTL
516	BNGESC	Skid Resistance Tester	R19912	DTL-SRT-001	ROAD-MARKING	DTL
517	BNGESC	Dial Indicator For Direct Shear Apparatus	N39093	DTL-DSA-001-B	SOIL/AGGREGATE	DTL
518	BNGESC	Dial Indicator For Direct Shear Apparatus	UEF556	DTL-DSA-001-A	SOIL/AGGREGATE	DTL



519	BNGESC	Stop Watch	14	DTL-SWH-058	General	Operation (Site Using)
520	BNGESC	Compression Testing Machine	Display-1939-1-10258	DTL-CM-004	CONCRETE/CEME NT	DTL
521	BNGESC	Load Ring For Direct Shear Apparatus	780060-00715	DTL-DSA-001-C	SOIL/AGGREGATE	DTL
522	BNGESC	Steel Ruler	6	DTL-SLR-001	STEEL	DTL
523	BNGESC	Digital Caliper	20141206	DTL-DC-019	ROAD-MARKING	DTL
524	BNGESC	Glass Thermometer	3E9340	DTL-TH-455	BITUMEN	DTL
525	BNGESC	Laser Infrared Thermometer	N/A	DTL-TH-284	CONCRETE/CEME NT	DTL
526	BNGESC	Digital Hygro- Thermometer	103	DTL-TH-015	SOIL/AGGREGATE	DTL
527	BNGESC	Digital Hygro- Thermometer	106	DTL-TH-008	ASPHALT	DTL
528	BNGESC	Digital Hygro- Thermometer	109	DTL-TH-017	ASPHALT	DTL
529	BNGESC	Digital Hygro- Thermometer	5	DTL-TH-021	ASPHALT	DTL
530	BNGESC	Digital Auto Rice Controller	1101	DTL-ARC-003	ASPHALT	DTL
531	BNGESC	Standard Weight	1512543	DTL-MW-008	STEEL	DTL
532	BNGESC	Hot Plate	R630001945	DTL-HP-006	ROAD-MARKING	DTL
533	BNGESC	Pressure Gauge	1	DTL-PSG-001	CONCRETE/CEME NT	DTL
534	BNGESC	Universal Testing Machine	025-10/11	DTL-STM-001	STEEL	DTL



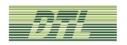
535	BNGESC	Melt Flow Meter	202068	DTL-GTX-MLT- 001	GEO-TEXTILE	DTL
536	BNGESC	Marshall Tester Machine	Display-1494	DTL-MT-004	ASPHALT	DTL
537	BNGESC	Digital Caliper	GK804317	DTL-DC-016	STEEL	DTL
538	BNGESC	Digital Indicator for Wall Thickness Tester	N/A	DTL-GTX-PWT- 001-A1	GEO-TEXTILE	DTL
539	BNGESC	Pressure Gauge	N/A	DTL-PSG-013	GEO-TEXTILE	DTL
540	BNGESC	Pressure Gauge	N/A	DTL-PSG-015	GEO-TEXTILE	DTL
541	BNGESC	Digital Drying Oven	20160111004	DTL-OVEN-026	General	QBC SIte
542	BNGESC	Universal Testing Machine	2019864	DTL-GTX-STM- 003	GEO-TEXTILE	DTL
543	BNGESC	Conical Cone	1	DTL-CC-001	ROAD-MARKING	DTL
544	BNGESC	Conical Cone	2	DTL-CC-002	ROAD-MARKING	DTL
545	BNGESC	Protractor	1501	DTL-SLR-002	STEEL	DTL
546	BNGESC	Digital Hygro- Thermometer	108	DTL-TH-005	BITUMEN	DTL
547	BNGESC	Digital Thermometer with Probe	34734630/311	DTL-TH-118	General	Operation (Site Using)
548	BNGESC	Digital Vacuum Manometer	4756	DTL-VCG-003	General	QBC Site
549	BNGESC	Straight Edge with Wedge	01478 / 657	DTL-SE-004	General	QBC Site
550	BNGESC	Dial Pressure Gauge	N/A	DTL-PSG-006	BITUMEN	DTL



551	BNGESC	Dial Penetrometer	N/A	DTL-PENAL-003	BITUMEN	DTL
552	BNGESC	Air Flow Meter	T-28185	DTL-FLM-005	BITUMEN	DTL
553	BNGESC	Curing Tank	2	DTL-CT-001	SOIL/AGGREGATE	DTL
554	BNGESC	Digital Vacuum Gauge Regulator	1521-A-3812	DTL-VP-017	BITUMEN	DTL
555	BNGESC	Thermal Conductivity Tester	200201	DTL-GTX-TCT- 001	GEO-TEXTILE	DTL
556	BNGESC	Bending Beam Rheometer	3075C, 3075L	DTL-BBRAP-002	BITUMEN	DTL
557	BNGESC	Digital Low Temperature Constant Temperature Bath	400-021-58501	DTL-WBATH- 022	CONCRETE/CEME NT	DTL
558	BNGESC	Digital Water Bath	SP-16-US-0125	DTL-WBATH- 027	BITUMEN	DTL
559	BNGESC	Shim Gauge	1479	DTL-SG-001	General	Operation (Site Using)
560	BNGESC	Shim Gauge	1480	DTL-SG-002	General	Operation (Site Using)
561	BNGESC	Marshall Mould	059-109	DTL-MM-059- 109	ASPHALT	DTL
562	BNGESC	Gass Pressure Gauge	N/A	DTL-GEO-PG- 004	GEO-TECHNICAL	DTL
563	BNGESC	Dial Indicator	90562	DTL-DIG-097	General	Opeartion Site Using
564	BNGESC	Dial Indicator	90937	DTL-DIG-096	General	Operation (Site Using)



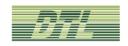
565	BNGESC	Crack Monitoring Plus	1	DTL-CG-001	CONCRETE/CEME NT	DTL
566	BNGESC	Crack Monitoring Plus	2	DTL-CG-002	CONCRETE/CEME NT	DTL
567	BNGESC	Right Angle Bar	N/A	DTL-RA-003	CONCRETE/CEME NT	DTL
568	BNGESC	Rebound Hammer	172687	DTL-HMR-003	CONCRETE/CEME NT	DTL
569	BNGESC	Triaxial Testing Machine	1884-3-1106	DTL-TTM-001	SOIL/AGGREGATE	DTL
570	BNGESC	Digital Biochemical Incubator	20161011001	DTL-FZR-011	CHEMICAL	DTL
571	BNGESC	Digital Biochemical Incubator	20161011002	DTL-FZR-012	CHEMICAL	DTL
572	BNGESC	Digital Water Bath	HN0740002	DTL-WBATH- 006	SOIL/AGGREGATE	DTL
573	BNGESC	Digital Hygrometer	190601986	DTL-TH-402	ASPHALT	DTL
574	BNGESC	Digital Hygrometer	190602021	DTL-TH-437	ASPHALT	DTL
575	BNGESC	Digital Hygrometer	190602029	DTL-TH-445	ASPHALT	DTL
576	BNGESC	Digital Thermometer with Probe	34762391/506	DTL-TH-054	General	Operation (Site Using)
577	BNGESC	Digital Thermometer with Probe	37462391/506	DTL-TH-043	General	Operation (Site Using)
578	BNGESC	Anemometer	180101402	DTL-TAM-002	BITUMEN	DTL
579	BNGESC	Stop Watch	610Q01R	DTL-SWH-033	Master Store	DTL
580	BNGESC	Leeb Hardness Tester	MH0113102125	DTL-HT-001	STEEL	DTL



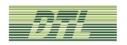
581	BNGESC	Digital Folding Thermometer	190712056	DTL-TH-305	General	Operation (Site Using)
582	BNGESC	Digital Folding Thermometer	190712085	DTL-TH-334	General	Operation (Site Using)
583	BNGESC	Digital Folding Thermometer	190712086	DTL-TH-335	General	Operation (Site Using)
584	BNGESC	Digital Folding Thermometer	190712090	DTL-TH-339	General	Operation (Site Using)
585	BNGESC	Digital Folding Thermometer	190712092	DTL-TH-341	General	Operation (Site Using)
586	BNGESC	Speedy Moisture Tester	54427809	DTL-SMT-003	SOIL/AGGREGATE	DTL
587	BNGESC	Right Angle	N/A	DTL-RA-013	Master Store	DTL
588	BNGESC	Right Angle	N/A	DTL-RA-014	Master Store	DTL
589	BNGESC	Right Angle	N/A	DTL-RA-012	Master Store	DTL
590	BNGESC	Right Angle	N/A	DTL-RA-011	Master Store	DTL
591	BNGESC	Dial Indicator (CBR Swell)	14548	DTL-DIG-034	SOIL/AGGREGATE	DTL
592	BNGESC	Dial Indicator	15233	DTL-DIG-021	SOIL/AGGREGATE	DTL
593	BNGESC	Dial Indicator (CBR Swell)	17344	DTL-DIG-158	SOIL/AGGREGATE	DTL
594	BNGESC	Dial Indicator (CBR Swell)	17373	DTL-DIG-159	SOIL/AGGREGATE	DTL
595	BNGESC	Dial Indicator (CBR Swell)	17388	DTL-DIG-162	SOIL/AGGREGATE	DTL



596	BNGESC	Dial Indicator (CBR Swell)	17488	DTL-DIG-163	SOIL/AGGREGATE	DTL
597	BNGESC	Dial Indicator (CBR Swell)	17609	DTL-DIG-157	SOIL/AGGREGATE	DTL
598	BNGESC	Dial Indicator (CBR Swell)	YBE4153	DTL-DIG-109	SOIL/AGGREGATE	DTL
599	BNGESC	Dial Indicator (CBR Swell)	YBE4318	DTL-DIG-127	SOIL/AGGREGATE	DTL
600	BNGESC	Dial Indicator (CBR Swell)	YBE4376	DTL-DIG-107	SOIL/AGGREGATE	DTL
601	BNGESC	Dial Indicator (CBR Swell)	YDG6889	DTL-DIG-111	SOIL/AGGREGATE	DTL
602	BNGESC	Dial Indicator (CBR Swell)	YDH7577	DTL-DIG-113	SOIL/AGGREGATE	DTL
603	BNGESC	Dial Indicator (CBR Swell)	YHA0328	DTL-DIG-106	SOIL/AGGREGATE	DTL
604	BNGESC	Dial Indicator (CBR Swell)	YHC 2601	DTL-DIG-126	SOIL/AGGREGATE	DTL
605	BNGESC	Dial Indicator (CBR Swell)	YHD3697	DTL-DIG-128	SOIL/AGGREGATE	DTL
606	BNGESC	Dial Indicator (CBR Swell)	YHE4742	DTL-DIG-118	SOIL/AGGREGATE	DTL
607	BNGESC	Dial Indicator (CBR Swell)	ZGG228	DTL-DIG-004	SOIL/AGGREGATE	DTL
608	BNGESC	Dial Indicator (CBR Swell)	ZHA144	DTL-DIG-005	SOIL/AGGREGATE	DTL
609	BNGESC	Test Anvil	80	DTL-CAL-001	CONCRETE/CEME NT	DTL
610	BNGESC	Pressure Gauge-Air Content	H181212	DTL-EM-004	CONCRETE/CEME NT	DTL
611	BNGESC	Digital Count Up/Down Timer	10	DTL-SWH-042	ASPHALT	DTL
612	BNGESC	Digital Count Up/Down Timer	1	DTL-SWH-037	ASPHALT	DTL



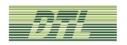
613	BNGESC	Dial Indicator	173041721	DTL-CBR-FTS- 003E	General	Operation Site Using
614	BNGESC	Digital Thermo Hygrometer	190601998	DTL-TH-414	BITUMEN	DTL
615	BNGESC	Load Ring	4348	DTL-CBR-FTS- 003D	General	Operation (Site Using)
616	BNGESC	Dial Indicator	90660	DTL-DIG-152	General	Operation (Site Using)
617	BNGESC	Dial Pressure Gauge	I/C-025/K504	DTL-CWPM-004- 1	CONCRETE/CEME NT	DTL
618	BNGESC	Dial Pressure Gauge	I/C-025/K504	DTL-CWPM-004- 2	CONCRETE/CEME NT	DTL
619	BNGESC	Water Permeability Gauge	I/C-025/K505	DTL-CWPM-008-	CONCRETE/CEME NT	DTL
620	BNGESC	Dial Pressure Gauge	I/C-025/K505	DTL-CWPM-008- 2	CONCRETE/CEME NT	DTL
621	BNGESC	Dial Pressure Gauge	I/C-025/K506	DTL-CWPM-003- 1	CONCRETE/CEME NT	DTL
622	BNGESC	Dial Pressure Gauge	I/C-025/K506	DTL-CWPM-003- 2	CONCRETE/CEME NT	DTL
623	BNGESC	Pressure Gauge	N/A	DTL-PTS-001- A5	GEO-TECHNICAL	DTL
624	BNGESC	Dial Vacuum Gauge	N/A	DTL-VP-014	CHEMICAL	DTL
625	BNGESC	Pressure Gauge	N/A	DTL-PTS-001- A4	GEO-TECHNICAL	DTL
626	BNGESC	Digital Vacuum Manometer	5112	DTL-VCG-008	CONCRETE/CEME NT	DTL
627	BNGESC	Steel Ruler	63	DTL-SLR-055	General	Opearatio n (Site Using)



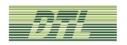
628	BNGESC	Steel Ruler	64	DTL-SLR-056	General	Operation (Site Using)
629	BNGESC	Steel Ruler	65	DTL-SLR-057	General	Operation (Site Using)
630	BNGESC	Steel Ruler	67	DTL-SLR-059	General	Operation (Site Using)
631	BNGESC	Steel Ruler	68	DTL-SLR-060	General	Opearatio n (Site Using)
632	BNGESC	Steel Ruler	71	DTL-SLR-063	General	Operation (Site Using)
633	BNGESC	Stop Watch	011Q04R	DTL-SWH-030	ASPHALT	DTL
634	BNGESC	Digital Count Up/Down Timer	3	DTL-SWH-036	ASPHALT	DTL
635	BNGESC	Dial Indicator (CBR Swell)	14730	DTL-DIG-052	SOIL/AGGREGATE	DTL
636	BNGESC	Dial Indicator (CBR Swell)	14916	DTL-DIG-046	SOIL/AGGREGATE	DTL
637	BNGESC	Digital Blasting Oven	1642	DTL-OVEN-019	CHEMICAL	DTL
638	BNGESC	Electronic Blance	171416009	DTL-BAL-070	General	QBC Site
639	BNGESC	Digital Temperature Hygrometer	190602003	DTL-TH-419	CONCRETE/CEME NT	DTL
640	BNGESC	Digital Biochemical Incubator	20161011003	DTL-FZR-013	CHEMICAL	DTL
641	BNGESC	Electronic Balance	486047	DTL-BAL-069	Master Store	DTL



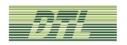
642	BNGESC	Roling Thin Film Oven	614-05	DTL-RTFO-002	BITUMEN	DTL
643	BNGESC	Steel Ruler	62	DTL-SLR-054	General	Opearatio n (Site Using)
644	BNGESC	Steel Ruler	69	DTL-SLR-061	General	Operation (Site Using)
645	BNGESC	Dial Indicator (CBR Swell)	7436	DTL-DIG-161	SOIL/AGGREGATE	DTL
646	BNGESC	Engler Viscometer Bath	B080ZH/0034	DTL-ENV-001	BITUMEN	DTL
647	BNGESC	Dial Gauge (CBR Swell)	DDL 705	DTL-DIG-040	SOIL/AGGREGATE	DTL
648	BNGESC	Dial Indicator (CBR Swell)	YHE4114	DTL-DIG-108	SOIL/AGGREGATE	DTL
649	BNGESC	Dynamic Shear Rheometer	81225279	DTL-DSRAP-001	BITUMEN	DTL
650	BNGESC	Stop Watch	6	DTL-SWH-032	STEEL	DTL
651	BNGESC	Marshall Mould Set	110-143	DTL-MM-110- 143	ASPHALT	DTL
652	BNGESC	Stop Watch	N/A	DTL-SWH-060	ROAD-MARKING	DTL
653	BNGESC	Steel Ruler	6	DTL-SLR-028	STEEL	DTL
654	BNGESC	Electronic Balance	121394011	DTL-BAL-030	General	QBC Site
655	BNGESC	Digital Marking Gauge	484275000	DTL-DMG-001	ROAD-MARKING	DTL
656	BNGESC	Digital Caliper	GJ800586	DTL-DC-018	SOIL/AGGREGATE	DTL
657	BNGESC	Gyratory Compactor Mold	001 to 006	DTL-GMO-001 TO 006	ASPHALT	DTL



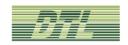
658	BNGESC	Carbon Black Content Tester	2020043001	DTL-GTX-CBT- 001	GEO-TEXTILE	DTL
659	BNGESC	Digital Thermometer with Probe	34761706/506	DTL-TH-119	General	Operation SIte Using
660	BNGESC	Hydraulic Jack	5430958531	DTL-HPG-002	General	QBC Site
661	BNGESC	Steel Ruler	66	DTL-SLR-058	General	Operation (Site Using)
662	BNGESC	Steel Ruler	70	DTL-SLR-062	General	Operation (Site Using)
663	BNGESC	Digital Thermometer with Probe	D79853	DTL-TH-116	ASPHALT	DTL
664	BNGESC	DC Holiday Detector	ML25344	DTL-DCHD-001	ROAD-MARKING	DTL
665	BNGESC	Straight Edge with Wedge	01553 / 01557	DTL-SE-007	General	Operation (Site Using)
666	BNGESC	Los Angeles Machine	20595	DTL-LOAN-002	SOIL/AGGREGATE	DTL
667	BNGESC	Pressure Gauge (Manual Hydraulic)	4131552567	DTL-HPG-001	CHEMICAL	DTL
668	BNGESC	Steel Ruler	121	DTL-SLR-113	General	Operation (Site Using)
669	BNGESC	Steel Ruler	123	DTL-SLR-115	General	Operation (Site Using)
670	BNGESC	Pulse Velocity Tester	UP01-001-0535, 32740010	DTL-PVT-001	CONCRETE/CEME NT	DTL
671	BNGESC	Steel Ruler	108	DTL-SLR-100	SOIL/AGGREGATE	DTL



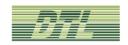
672	BNGESC	Digital Folding Thermeter	36735101	DTL-TH-485	General	Operation (Site Using)
673	BNGESC	Digital Folding Thermeter	36735102	DTL-TH-486	General	Operation (Site Using)
674	BNGESC	Digital Folding Thermeter	36735103	DTL-TH-487	General	Operation (Site Using)
675	BNGESC	Digital Folding Thermeter	36735104	DTL-TH-488	General	Operation (Site Using)
676	BNGESC	Digital Folding Thermeter	36735105	DTL-TH-489	General	Operation (Site Using)
677	BNGESC	Digital Folding Thermometer	36735106	DTL-TH-490	General	Operation (Site Using)
678	BNGESC	Digital Folding Thermometer	36735107	DTL-TH-491	General	Operation (Site Using)
679	BNGESC	Digital Folding Thermometer	36735108	DTL-TH-492	General	Operation (Site Using)
680	BNGESC	Digital Folding Thermometer	36735109	DTL-TH-493	General	Operation (Site Using)
681	BNGESC	Digital Folding Thermometer	36735110	DTL-TH-494	General	Operation (Site Using)
682	BNGESC	Steel Ruler	84	DTL-SLR-076	SOIL/AGGREGATE	DTL
683	BNGESC	True RMS Multimeter	100900324	DTL-MUL-001	Master Store	DTL



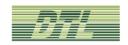
684	BNGESC	Profometer Corrosion	UP-01-008-0575	DTL-PRC-002	CONCRETE/CEME NT	DTL
685	BNGESC	Digital Muffle Furnace	207039	DTL-MF-001	ROAD-MARKING	DTL
686	BNGESC	Auto Rice Controller	1168	DTL-ARC-004	ASPHALT	DTL
687	BNGESC	Digital Water Bath	N/A	DTL-WBATH- 007	CHEMICAL	DTL
688	BNGESC	Steel Ruler	24	DTL-SLR-010	General	Operation (Site Using)
689	BNGESC	Steel Ruler	52	DTL-SLR-044	General	Operation (Site Using)
690	BNGESC	Steel Ruler	55	DTL-SLR-047	General	Operation (Site Using)
691	BNGESC	Steel Ruler	59	DTL-SLR-051	General	Operation (Site Using)
692	BNGESC	Stop Watch	15	DTL-SWH-059	CONCRETE/CEME NT	DTL
693	BNGESC	Digital Vernier Caliper	7642156	DTL-DC-017	CONCRETE/CEME NT	DTL
694	BNGESC	Digital Hygro- Thermometer	101	DTL-TH-029	SOIL/AGGREGATE	DTL
695	BNGESC	Thin Film Oven	15110201	DTL-OVEN-029	BITUMEN	DTL
696	BNGESC	Air Content Meter	4052786	DTL-EM-006	CONCRETE/CEME NT	DTL
697	BNGESC	RTD Digital Thermometer	131101799	DTL-TH-109	General	Operation (Site Using)



698	BNGESC	Digital Thermometer with Probe	150809272	DTL-TH-128	General	Operation (Site Using)
699	BNGESC	Digital Thermo Hygrometer	190602001	DTL-TH-497	General	DTL
700	BNGESC	Digital Thermo Hygrometer	190602002	DTL-TH-495	CONCRETE/CEME NT	DTL
701	BNGESC	Digital Thermo Hygrometer	190602031	DTL-TH-499	CONCRETE/CEME NT	DTL
702	BNGESC	Digital Thermo Hygrometer	190602032	DTL-TH-504	CONCRETE/CEME NT	DTL
703	BNGESC	Digital Thermo Hygrometer	190602033	DTL-TH-496	CONCRETE/CEME NT	DTL
704	BNGESC	Digital Thermo Hygrometer	190602034	DTL-TH-498	CONCRETE/CEME NT	DTL
705	BNGESC	Digital Thermo Hygrometer	190602035	DTL-TH-502	CONCRETE/CEME NT	DTL
706	BNGESC	Digital Thermo Hygrometer	190602036	DTL-TH-503	CONCRETE/CEME NT	DTL
707	BNGESC	Digital Thermo Hygrometer	190602037	DTL-TH-501	CONCRETE/CEME NT	DTL
708	BNGESC	Digital Thermo Hygrometer	190602038	DTL-TH-500	CONCRETE/CEME NT	DTL
709	BNGESC	Steel Ruler	51	DTL-SLR-043	CONCRETE/CEME NT	DTL
710	BNGESC	Digital Thermometer with Probe	150809267	DTL-TH-127	General	Operation (Site Using)
711	BNGESC	Plate Bearing Test Apparatus	5430991514	DTL-HPG-003	General	QBC Site
712	BNGESC	Steel Ruler	2	DTL-SLR-004	General	QBC Site



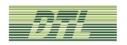
713	BNGESC	Digital Thermometer with Probe	150701432	DTL-TH-129	General	Operation (Site Using)
714	BNGESC	Steel Ruler	56	DTL-SLR-048	General	QBC Site
715	BNGESC	Sand Equivalent Shaker	S160NZH0096	DTL-SES-003	General	QBC Site
716	BNGESC	Dial Indicator (CBR Swell)	14860	DTL-DIG-045	SOIL/AGGREGATE	DTL
717	BNGESC	Dial Indicator (CBR Swell)	17930	DTL-DIG-061	SOIL/AGGREGATE	DTL
718	BNGESC	Straight Edge	30931	DTL-SB-004	General	QBC Site
719	BNGESC	Gyratory Compactor	66657	DTL-SGC-001	ASPHALT	DTL
720	BNGESC	Dial Gauge (CBR Sweel)	DHP 074	DTL-DIG-067	SOIL/AGGREGATE	DTL
721	BNGESC	Dial Gauge (CBR Swell)	DHP 164	DTL-DIG-066	SOIL/AGGREGATE	DTL
722	BNGESC	Dial Indicator (CBR Swell)	TAD 621	DTL-DIG-075	SOIL/AGGREGATE	DTL
723	BNGESC	Dial Indicator (CBR Swell)	YHE 4259	DTL-DIG-064	SOIL/AGGREGATE	DTL
724	BNGESC	Digital Thermometer with Probe	150809283	DTL-TH-130	General	Operation (Site Using)
725	BNGESC	Rapid Chloride Test Apparatus	172603	DTL-RCP-003	CONCRETE/CEME NT	DTL
726	BNGESC	Filterless Centrifuge Extraction	B014X/BZ/0001	DTL-FLC-007	ASPHALT	DTL
727	BNGESC	Master Weight	G1614432	DTL-MW-020	CONCRETE/CEME NT	DTL



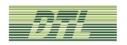
728	BNGESC	Master Weight	G1614437	DTL-MW-019	CONCRETE/CEME NT	DTL
729	BNGESC	Digital Vacuum Gauge	2667	DTL-VCG-004	ASPHALT	DTL
730	BNGESC	Pressure Gauge	436-04	DTL-PSG-016	General	Operation (Site Using)
731	BNGESC	Thermo Hygro Clock	1	DTL-TH-201	ROAD-MARKING	DTL
732	BNGESC	STRAIGHT EDGE WITH WEDGE	01551-01555	DTL-SE-005	General	Operation (Site Using)
733	BNGESC	Straight Edge with Wedge	01552-01556	DTL-SE-006	General	Operation (Site Using)
734	BNGESC	Digital Hygro- Thermometer	TN2236	DTL-TH-010	STEEL	DTL
735	BNGESC	Thermo Hygro- Clock	23	DTL-TH-165	ASPHALT	DTL
736	BNGESC	Steel Ruler	58	DTL-SLR-050	General	Operation (Site Using)
737	BNGESC	Steel Ruler	60	DTL-SLR-052	General	Operation (Site Using)
738	BNGESC	Steel Ruler	72	DTL-SLR-064	General	Operation (Site Using)
739	BNGESC	Steel Ruler	98	DTL-SLR-090	General	Operation (Site Using)
740	BNGESC	Hot Plate	C10105222081774698	DTL-HP-025	ASPHALT	DTL
741	BNGESC	TFA Digital Thermometer	N/A	DTL-BAP-003- A1	CONCRETE/CEME NT	DTL



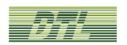
742	BNGESC	Steel Ruler	5	DTL-SLR-003	General	Operation (Site Using)
743	BNGESC	Steel Ruler	31	DTL-SLR-017	General	Operation (Site Using)
744	BNGESC	Steel Ruler	57	DTL-SLR-049	General	Operation (Site Using)
745	BNGESC	Digital Thermometer	0112-8	DTL-TH-011	CONCRETE/CEME NT	DTL
746	BNGESC	Stop Watch	N/A	DTL-SWH-040	ASPHALT	DTL
747	BNGESC	Steel Ruler	53	DTL-SLR-045	General	Operation (Site Using)
748	BNGESC	12 Channel Data Logger	H375723	DTL-TDL-010	CONCRETE/CEME NT	DTL
749	BNGESC	Heating Block	11120C0153	DTL-HP-008	CHEMICAL	DTL
750	BNGESC	Torque Wrench	1910221985	DTL-TWS-001	STEEL	DTL
751	BNGESC	Stop Watch	401Q09R	DTL-SWH-041	ASPHALT	DTL
752	BNGESC	Steel Ruler	73	DTL-SLR-065	General	Operation (Site Using)
753	BNGESC	Master Weight	G1614430	DTL-MW-018	CONCRETE/CEME NT	DTL
754	BNGESC	Master Weight	G1614434	DTL-MW-024	ROAD-MARKING	DTL
755	BNGESC	Centrifuge Extractor	H180701	DTL-CEM-020	ASPHALT	DTL



756	BNGESC	Graduated Wedge	1559	DTL-SE-010	General	Operation (Site Using)
757	BNGESC	Glass Thermometer	13628	DTL-TH-264	BITUMEN	DTL
758	BNGESC	Digital Hygrothermometer	4	DTL-TH-123	SOIL/AGGREGATE	DTL
759	BNGESC	Vane Shear Equipment	1103-11-1548	DTL-VSA-001	SOIL/AGGREGATE	DTL
760	BNGESC	Digital Folding Thermometer	150413509	DTL-TH-205	General	Operation (Site Using)
761	BNGESC	Digital Folding Thermometer	150413525	DTL-TH-207	General	Operation (Site Using)
762	BNGESC	Digital Folding Thermometer	190712091	DTL-TH-340	General	Operation (Site Using)
763	BNGESC	Master Weight	G1614429	DTL-MW-021	BITUMEN	DTL
764	BNGESC	Master Weight	G1614436	DTL-MW-026	ASPHALT	DTL
765	BNGESC	Wire Basket	HA-5063	DTL-DDB-001	ASPHALT	DTL
766	BNGESC	Electrical Oven	12K185	DTL-OVEN-020	ASPHALT	DTL
767	BNGESC	Los Angeles Abrasion Machine	13/000284	DTL-LOAN-001	SOIL/AGGREGATE	DTL
768	BNGESC	Digital Drying Oven	18G220	DTL-OVEN-051	ASPHALT	DTL
769	BNGESC	Steel Ruler	124	DTL-SLR-119	General	Operation (Site Using)



770	BNGESC	Steel Ruler	125	DTL-SLR-120	General	Operation (Site Using)
771	BNGESC	Steel Ruler	126	DTL-SLR-121	General	Operation (Site Using)
772	BNGESC	Steel Ruler	127	DTL-SLR-122	General	Operation (Site Using)
773	BNGESC	Steel Ruler	128	DTL-SLR-123	General	Operation (Site Using)
774	BNGESC	Steel Ruler	129	DTL-SLR-124	General	Operation (Site Using)
775	BNGESC	Steel Ruler	130	DTL-SLR-125	General	Operation (Site Using)
776	BNGESC	Steel Ruler	131	DTL-SLR-126	General	Operation (Site Using)
777	BNGESC	Steel Ruler	132	DTL-SLR-127	General	Operation (Site Using)
778	BNGESC	Steel Ruler	22	DTL-SLR-008	General	Operation (Site Using)
779	BNGESC	Digital Folding Thermometer	190712067	DTL-TH-316	General	Opearatio n (Site Using)
780	BNGESC	Master Weight	G1614433	DTL-MW-027	Master Store	DTL
781	BNGESC	Master Weight	G1614439	DTL-MW-028	Master Store	DTL



782	BNGESC	Sound Level Calibrator	H.366182	DTL-SLC-001	Master Store	DTL
783	BNGESC	Master Weight	G1614438	DTL-MW-023	SOIL/AGGREGATE	DTL
784	BNGESC	Master Weight	K141315	DTL-MW-022	SOIL/AGGREGATE	DTL
785	BNGESC	Master Weight	G1614441	DTL-MW-025	Master Store	DTL
786	BNGESC	Master Weight	G1614431	DTL-MW-030	Master Store	DTL
787	BNGESC	Master Weight	G1614435	DTL-MW-029	General	QBC Site
788	BNGESC	Standard Weight	1512542	DTL-MW-003	BITUMEN	DTL
789	BNGESC	Master Weight	1512540	DTL-MW-004	ROAD-MARKING	DTL
790	BNGESC	Standard Weight	1512546	DTL-MW-002	Master Store	DTL
791	BNGESC	Standard Weight	N/A	DTL-MW-031	Master Store	DTL
792	BNGESC	Standard Weight	1512541	DTL-MW-001	General	QBC Site
793	BNGESC	Standard Weight	1512549	DTL-MW-006	ASPHALT	DTL
794	BNGESC	Standard Weight	1512536	DTL-MW-011	Master Store	DTL
795	BNGESC	Standard Weight	1512535	DTL-MW-012	General	QBC Site
796	BNGESC	Standard Weight	1512539	DTL-MW-005	SOIL/AGGREGATE	DTL
797	BNGESC	Standard Weight	1512544	DTL-MW-013	Master Store	DTL
798	BNGESC	Master Weight	1512545	DTL-MW-007	SOIL/AGGREGATE	DTL



799	BNGESC	Standard Weight	1512548	DTL-MW-014	Master Store	DTL
800	BNGESC	Standard Weight	1512534	DTL-MW-010	CHEMICAL	DTL
801	BNGESC	Standard Weight	1512537	DTL-MW-009	CHEMICAL	DTL
802	BNGESC	Standard Weight	1512538	DTL-MW-016	General	Sand & Rock Site
803	BNGESC	Standard Weight	1512547	DTL-MW-015	General	Sand & Rock Site
804	BNGESC	Resilience Tester	N/A	DTL-RT-003	General	QBC Site
805	BNGESC	Resilience Tester	-	DTL-RT-002	SOIL/AGGREGATE	DTL
806	BNGESC	Compression Machine - Stablity Test	1866-1-2006	DTL-CM-008.1	SOIL/AGGREGATE	DTL



# Institutional Membership



## Organizational Member



Standards for Materials, Products, Systems, and Services

**Doha Technical Laboratories** 



# Photography of Laboratory Activities



# مختبرات الدوحة الفنية

#### **ROAD AND PAVEMENT TESTING**

















# مختبرات الدوحة الفنية

### Soil and Aggregate Tests













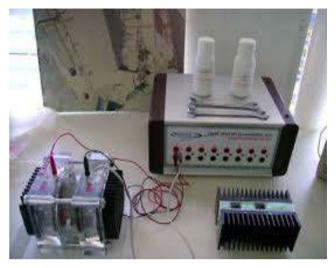




# مختبرات الدوحة الفنية

### **CONCRETE AND CEMENTITIOUS TESTS**











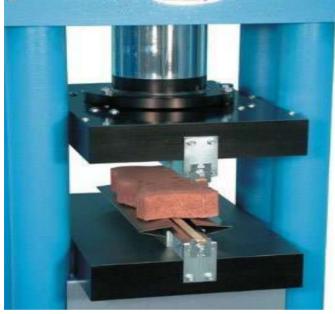


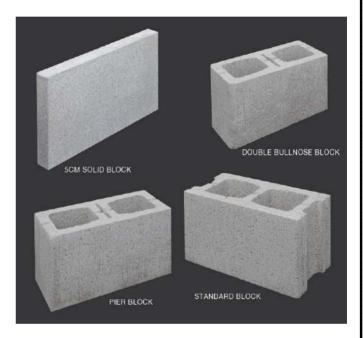
# مختبرات الدوحة الفنية

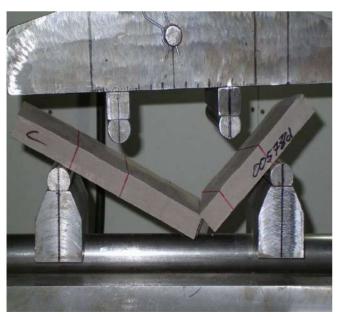
#### **MASONRY AND PAVING UNITS TESTS**



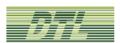












# مختبرات الدوحة الفنية

#### **GEOTECHNICAL TESTS**















# مختبرات الدوحة الفنية

#### **NON DESTRUCTIVE TESTS**











# مختبرات الدوحة الفنية

#### THERMOPLASTIC TESTS









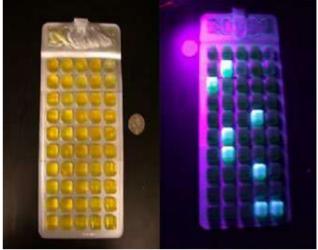




### مختبرات الدوحة الفنية

# CHEMICAL TESTS FOR WATER, SOIL, AGGREGATE, CEMENT, CONCRETE, ASPHALT, STEEL & MICROBIOLOGY TESTS FOR WATER













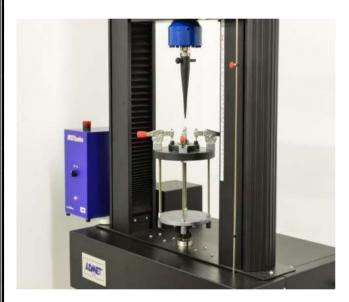


# مختبرات الدوحة الفنية

#### **GEOTEXTILE AND MEMBRANE TESTING**















# مختبرات الدوحة الفنية

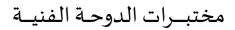
#### **STEEL TESTS**













#### **GEOPHYSICAL TESTS**

#### INSTRUMENTATION AND MONITORING



#### **STRAIN GAUGE**



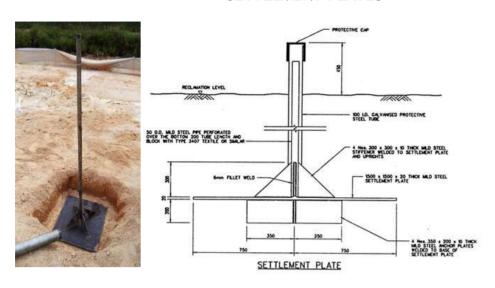
#### **OPTICAL TARGET MONITORING**





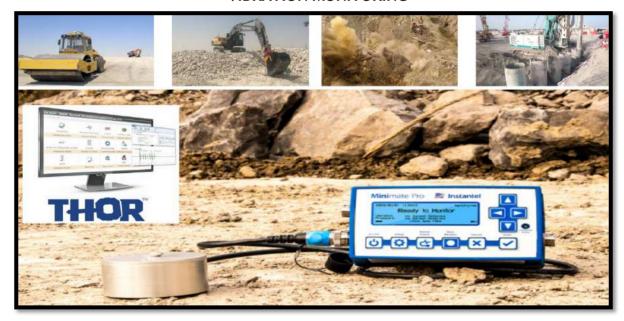
# مختبرات الدوحة الفنية

#### **SETTLEMENT PLATES**





#### **VIBRATION MONITORING**



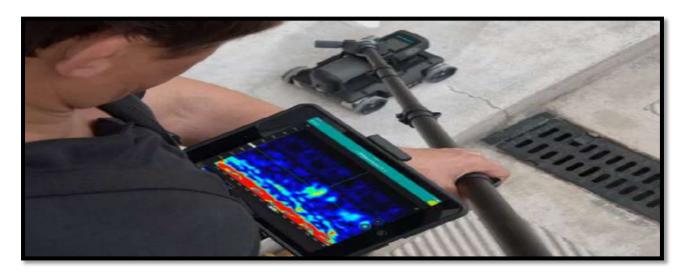
#### **CCTV PIPE INSPECTION**





# مختبرات الدوحة الفنية

### **GROUND PENETRATING RADAR (GPR)**





SLAB IMPULSE RESPONSE (SIR)







# مختبرات الدوحة الفنية

#### **TOPOGRAPHICAL SURVEY**







# مختبرات الدوحة الفنية

#### **ENVIRONMENTAL TESTS**









