



CTLGROUP QATAR STATEMENT OF QUALIFICATIONS

Engineering • Testing • Inspection

FIRM PROFILE

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CTLGroup-Qatar is a 3rd party testing laboratory and specialty testing firm that provides various services and solutions related to engineering and material science. Backed by CTLGroup USA's century of experience in the cement and concrete industry, CTLGroup Qatar has an unparalleled capability to perform tests and evaluations ranging from routine QA/QC site testing of concrete to structural evaluations of various infrastructure projects.

With direct access to CTLGroup USA's consulting engineers, architects, and material scientists, CTLGroup-Qatar offers a full range of testing services for concrete, cementitious materials, aggregates, building systems, soils, and asphalt. In addition, the company offers several non-destructive testing, monitoring solutions and structural appraisal services as well as several training and accreditation programs. The company lab is ISO 17025:2017 and ISO 9001:2015 certified and supported by an internal Laboratory Management System. It has also acquired ISO 14001:2015 and OHSAS 18001:2007 and is an approved/enlisted laboratory by Public Work Authority (ASHGHAL) and Qatar General Organization for Standardization (QGOS).

CTLGroup-Qatar strives to be a leading laboratory for testing construction materials and to offer ethical solutions for various quality issues in the construction industry through the use of cutting-edge technology, testing equipment, qualified personnel, and industry knowledge. Concrete is an essential material to structures around the world. It is known for its strength,

durability, and performance in numerous applications from high rises to highways, providing shelter and spaces to conduct business. However, like most construction materials, concrete can be subject to performance issues stemming from design, environment, and usage-factors. CTLGroup-Qatar specializes in solving problems with concrete production and performance in existing concrete structures.

As a leading organization for testing construction materials, we offer reliable concrete solutions to the various quality issues of the construction industry through Non-Destructive Testing, In-Situ Testing, Laboratory Testing, Certification, and Training. We've developed a range of quality assurance programs and guidelines to ensure our clients receive the highest level of service and expertise. Our employees undergo extensive training and maintain certifications for testing based on the requirements of the construction and testing industry. Our staff has the appropriate education and practical experience to meet the challenges of complex engineering projects.

One of many ways that CTLGroup-Qatar demonstrates our commitment to providing clients with professional, quality service and satisfaction is by requiring our staff to receive and maintain certifications from recognized local and national industry organizations. We encourage our professionals to attend seminars, conferences and classes to keep abreast of changes in our industry, and we recognize them for their outstanding accomplishments in the field.

CTLGroup Qatar | Vision, Mission, & Quality Policy

Vision

Our vision is to maintain and improve our leading position as a third-party engineering + material science firm whose reputation is built on the ability to satisfy customers by providing creative solutions to complex problems. As specialists in their respective fields, our team of professionals is dedicated to a standard of excellence for quality and performance, through continuous development, which will set standards in our industry.

Mission

At all times, it is the Company's intention to conduct its operations in a fair, ethical and professional manner, which reflects excellence in every aspect of our business. Being committed to the highest standards of integrity and performance, our target is to maintain market superiority through our superior quality services, continuous improvement and strategic alliances with key suppliers.



Quality policy

CTLGroup-Qatar has assembled and maintains a robust Quality Management System (QMS) that enables us to consistently provide our clients with superior service and a valuable work product. Our dynamic QMS processes provide the framework for monitoring, measuring, and improving everything we do, ultimately translating to client satisfaction. Because of this, we have been able to attain QGOSM and ISO 17025 accreditations, ISO 9001 certification, US Army Corps of Engineers (the only validated laboratory in the Middle East).

CTLGroup-Qatar has the honor to be certified by ISO 17025 as well as ISO 9001, 14001 and 18001. The policy of CTLGroup-Qatar is to provide reliable testing and assessment services that solves customers concerns and meet their expectations. In the same retrospect, we consider that the internal implemented procedures and techniques ensure the achievement of the following goals:

- Pursue the highest level of Quality regardless of project scale.
- Consistently satisfy and support the Clients' requirements.
- Promote the qualities and achievements of the Company with the objective of attracting and expanding the Client/Project base, and encouraging a sense of pride and satisfaction among our employees.

To achieve these goals, the Company has:

- Developed and implemented a robust Internal Quality Management System in accordance with the ISO 17025:2017 requirements as well as that of ISO 9001: 2015 and ISO 14001:2015.
- Identified and continually provided relevant training and awareness to our staff.
- Given all the staff the opportunity to contribute to the continuous improvement of Quality and the Quality Management System.
- Required all our staff to perform their duties in compliance with the Quality Management System.
- Given the appropriate staff the responsibility and authority for ensuring that the policy is understood, implemented and maintained at all levels.
- Set up the necessary quality objectives that can improve internal systems.

The role of the Quality Assurance team in CTLGroup-Qatar is to look after the company's systems, procedures and records and determine if they are in conformance with its policy, procedures, agreed standard and appropriate regulatory requirements.

CTLGroup Qatar Facilities spread over 10,000 ft² and is equipped with state-of-art tools and equipment that enable us to perform a wide range of testing services in cementitious materials, soil, asphalt, chemical admixtures, mortars and construction products. CTLGroup-Qatar's laboratory has direct access to CTLGroup's (USA) engineering, architectural, and scientific consultants to provide our clients with a full range of professional services. Such solutions cover petrographic testing, XRD, XRF, Railway testing, posttensioning cables and many others.

Aggregate testing

CTLGroup-Qatar conducts aggregate testing that assist customers with assessing the characteristics and quality of aggregates for use in concrete, building, and/or construction in accordance with the Qatar Construction Specifications 2014.

Soil testing

The foundation of any building or roadway begins with the earth, and correct analysis of soils is essential to ensuring serviceability of any structure. CTLGroup-Qatar is equipped with a variety of tools and instruments to provide our clients with analytic data and solutions relate to soil aspects.

Asphalt testing

As an alternative roadway pavement, asphalt can offer excellent performance if proper placement and testing techniques are implemented. Add more text here so it becomes aligned with the picture and text shown on the left size.

Chemical testing

CTLGroup-Qatar's chemical services provide answers to our clients' complex questions. We can offer clients a single source for complete materials characterization with support from CTLGroup USA's full range of testing and consulting services, including physical testing.

Concrete testing

Stringent quality assurance and quality control procedures provide accurate results engineers can rely on as they consider recommendations, products, and materials to be used for their construction or repair projects.

Masonry testing

CTLGroup-Qatar can solve problems involving all masonry materials and systems. Our clients include architects, structural engineers, contractors, facility owners, government agencies and material manufacturers. Our services include inspections and document review as well as historic restorations.

Mortar testing

CTLGroup-Qatar's Mortar Testing Lab is equipped to run various ASTM + BS EN tests using modern technology and methods. Our Mortar Testing Lab is the premier place to make sure your materials are the best they can be. Automated machinery ensures the most accurate results every time. Let us know what types of standardized tests or specialized mortar analysis our experienced staff can perform for you.





CTLGroup-Qatar has assembled and maintains a robust Laboratory Management System (LMS) that enables us to consistently provide our clients with superior service and a valuable work product. Our dynamic LMS processes provide the framework for monitoring, measuring, and improving everything we do, ultimately translating to client satisfaction. Because of this, we have been able to attain QGOSM and ISO 17025 accreditations, ISO 9001 certification.

ISO 17025 | Testing + Calibration Laboratory

General requirements for the competence of testing and calibration laboratories are the main ISO standard used by testing and calibration laboratories. In most major countries, ISO/IEC 17025 is the standard by which most labs must hold accreditation in order to be deemed technically competent. In many cases, suppliers and regulatory authorities will not accept test or calibration results from a lab that is not accredited.

ISO 9001:2015 | Quality Management System

The ISO 9000 family of quality management systems standards is designed to help organizations ensure that customers and other stakeholder's needs are being met, while also meeting statutory and regulatory requirements related to a product or program. ISO 9001:2015 sets the criteria for a quality management system and is the only standard in the family that requires certification.

ISO 14001:2015 | Environmental Management System

The ISO 14000 family of standards provides practical tools for companies and organizations of all kinds who want to manage their environmental responsibilities. ISO 14001 focus on environmental systems to achieve this. The standards in this area of ISO, focus on specific approaches such as audits, communications, labeling and life cycle analysis, as well as environmental challenges such as climate change.

OHSAS 18001:2007 | Occupational Health + Safety Management System

OHSAS 18001, Occupational Health and Safety Assessment Series, (officially BS OHSAS 18001) is an internationally applied British Standard for occupational health and safety management systems. It exists to help all kinds of organizations implement demonstrably sound occupational health and safety performance.

CTLGroup Qatar & CTLGroup USA Relationship

CTLGroup-Qatar W.L.L. is a privately owned company established under the rules and regulations of State of Qatar and conforms to the general requirement of material testing laboratory (Grade A laboratory) defined by Qatar General Organization for Standardization.

The company was established during 2014 after both (1) the owners and (2) CTLGroup USA entered a joint development agreement to establish and operate a laboratory in Qatar which enables the owners of CTLGroup-Qatar to use CTL brand name and benefit from CTL Group expertise/technical support. In addition, a licensing agreement and a laboratory management agreement has been made to govern the relation between both firms and set a clear road map for day-to-day operations. Currently, CTLGroup-USA performs monthly visits to oversee the lab operation, train the staff and help in business development.

All projects executed by CTLGroup-Qatar are governed by the Qatari law and thus all responsibilities and Liabilities related to such projects will be interpreted as per the terms/conditions defined within such laws.



We are an intentionally-recognized expert consulting engineering and materials science firm that provides engineering, architecture, testing, and scientific services to our clients across the globe and delivers a multidisciplinary approach to solve the most complex problems. With a corporate history that spans nearly 100 years, we serve clients across the following markets:

Buildings + Facilities • Civil Infrastructure • Industrial Infrastructure • Energy + Resources •
Litigation + Insurance • Materials + Products • Transportation

Our engineering expertise is complemented by one of the largest and most comprehensive private material and structural testing laboratories in the world and our experts can address problems from the materials and structural perspectives to deliver an integrated solution.

We have been involved in the development of some of the most advanced materials, authored testing standards, contributed to the construction of global landmarks, and have been called on as experts for some of the most notorious catastrophes and disasters. Across the construction life-cycle, CTLGroup experts help define problems, avoid issues and provide repair resolutions.



Key Facts

- 29% of staff hold professional licenses with over 10% holding Ph.D. degrees
- ACI certified technicians
- Licensed in all 50 states
- 60,000 sf of material and structural testing laboratories
- Laboratories are validated by US Army Corps of Engineers and hold numerous QMS certifications
- Stadium® certified user

Quality Management System

CTLGroup has one of the most demanding Quality Management Systems (QMS) for engineering consulting and laboratory testing of materials and structural components. Through our QMS, we have achieved various accreditations and certifications:

- IAS ISO 17025:2008 accredited
- AASHTO accredited
- 10 CFR 50, Appendix B/NQA-1 Compliant
- ISO 9001:2008 Bureau Veritas



Consulting Services

Building practices, construction materials, evolving technology, and structural issues present a variety of complex challenges. Clients around the world turn to us for timely and reliable solutions. Our cross-disciplinary teams of engineers, architects, and scientists work together to deliver comprehensive results to almost any structural, material, or product-related problem. Few firms can match the powerful combination of our award-winning consulting teams and our renowned, world-class testing laboratories. Our consultants serve as trusted advisors and problem solvers.

Laboratory Services

CTLGroup provides the analyses and collaboration clients need when making big performance decisions. We offer physical, chemical, and microscopic analyses of building materials and products. With one of the biggest private structural labs in the U.S., CTLGroup conducts large-scale testing of engineered systems and components (load capacity up to ten million pounds). Clients count on CTLGroup for the testing of metals, aggregates, building systems, concrete, and cement. The diversity of our standard tests is complemented by the development of custom and specialized tests.

Expert insights, scientific solutions

As a leading expert in material sciences, CTLGroup provides engineering, architecture, testing, and scientific services to our clients across the globe. We deliver a multidisciplinary approach to solve the most complex problems across many markets.

CTLGroup's leadership team fosters a culture of success by emphasizing a unified, multi-disciplinary approach to all projects, and recognizing, developing and rewarding individual expertise. The corporate officers and senior managers that comprise the firm's leadership team partner with the practice group leaders to determine and implement the longterm strategic direction of the firm, and to set initiatives for the firm's growth across the multiple markets it serves. Leadership guides the firm's daily operations high-consequence problems.

1

100 Years of History With R&D Works

CTLGroup's legacy began in 1916 as the R+D labs of its parent organization, the Portland Cement Association (PCA). How have we changed? In some ways, we haven't. We are still thought leaders and problem solvers. We are still engineers, architects, scientists, and consultants. As the world around us has changed, we have evolved with it to continue to meet the needs of our clients.

2

Proven Track-Record of Delivering Results & Developing Solutions

Creative Solutions to Complex Problems in Engineering and Materials Science. It is more than just a tag line. It is why our clients come to us to work with them and solve some of the most complex problems they will ever face. Whether it is a nuclear facility, tall building, long bridge or big concrete pour, CTL Group will always work on providing solutions to help owners and clients solve their problems.

3

State-of-Art Facility That Contains Latest Technological Instruments

CTLGroup's laboratory facilities are internationally respected as one of the most comprehensive testing and research facilities in cementitious materials, chemical admixtures, mortars, construction products and structural systems. The firm's 60,000 square feet of facilities consist of industry-leading:

- Materials Laboratories (Analytical Chemical, Mortar, Cement, Concrete, Physical Testing)
- Petrography Laboratory
- Creep + Shrinkage Laboratory
- Structural + Transportation Laboratory
- (One of the largest private structural labs in the U.S., conducting static or dynamic testing of full-scale engineered systems and components.)

4

Industry Finest Engineers, Scientists & Researchers

The success of CTLGroup depends solely on those who work here. We are driven to achieve greatness in our services, striving to produce results based on integrity and strength. The solutions that our clients have counted on us for are a direct result of hardworking, innovative people. We are dedicated to maintaining our reputation as a reliable firm that works to meet the needs of our clients.

5

Accreditations & Affiliations

CTLGroup is an internationally recognized expert consulting engineering and materials science firm. Our engineering expertise is complemented by one of the largest and most comprehensive private material and structural testing laboratories in the world. Our experts can address problems from the materials and structural perspectives to deliver an integrated solution. CTL GROUP QMS system meets the most demanding requirements for engineering consulting and testing of materials and structural components such as ISO/IEC, AASHTO, Corps of Engineers, Nuclear Industry Assessment Committee, Association of American Railroads and many others.

CTLGroup and its employees have received many awards for their contributions to the building industry. CTLGroup's work has consistently been recognized by its clients and the industry for technical excellence in applied research, structural evaluations and repair design, and mass concrete. For decades, our experts have been acknowledge for their leadership in the development of nationally recognized tests and standards for construction and building materials and for raising the standards of the engineering profession for building and infrastructure construction. Below is a summary of the firm's awards over the past ten years.



INTERNATIONAL
CONCRETE REPAIR
INSTITUTE

25th Annual ICRI Project Award Unity Temple Restoration Award of Excellence in the Historic Category for the 2017 ICRI Project Awards Program



2017 Richard H. Driehaus Foundation Preservation Award. CTLGroup was among a team awarded for Restoration of Frank Lloyd Wright's Unity Temple.



2016 BD+C Giants 300 CTLGroup ranked on BD+C's Giants 300 Report



Indiana Ready Mixed Concrete Association 2015 Concrete Achievement Award Awarded to construction team for excellence in concrete construction for the Kern Road Interchange/ New US 31 By Pass.

CERTIFICATIONS

All CTLGroup physical testing technician personnel are American Concrete Institute (ACI) certified at various levels.

AASHTO/CCRL

All CTLGroup physical testing technician personnel are American Concrete Institute (ACI) certified at various levels. CTLGroup participates in Cement and Concrete Reference Laboratory (CCRL) and AASHTO Materials Reference Laboratory (AMRL) Proficiency Sample Programs.

AFFILIATIONS



STADIUM® SOFTWARE

CTLGroup's laboratories are certified to provide testing services for input into the STADIUM (Software for Transport and Degradation In Unsaturated Materials)® service life modeling software. CTLGroup is a STADIUM® authorized company and STADIUM® Lab certified laboratory.

LICENSURE

CTLGroup employs licensed engineers in all 50 United States, as well as several U.S. Territories and Canadian provinces.



2015

NASA 3D Printed Habitat Challenge: Best in Class Award for “Use of Space” Design Awarded for Best in Class award for “Use of Space” design as part of NASA’s \$2.25 million competition to design and build a 3D printed habitat for deep space exploration. CTLGroup’s design was selected as a top 30 finalist out of 162 submissions.

Indiana Ready Mixed Concrete Association: 2015 Concrete Achievement Award Awarded to construction team for excellence in concrete construction for the Kern Road Interchange/New US 31 By Pass.

2014

National Aeronautics and Space Administration (NASA) Honor Awards, Group Achievement Award CTLGroup received NASA’s “Group Achievement Award” for assisting the Jet Propulsion Laboratory with the evaluation of a Deep Space Network antenna pedestal near Madrid, Spain.

International Concrete Repair Institute Award of Excellence: Longevity Category Awarded for the 1993 repairs to the Paulina Street Parking Garage. The 1993 repairs have lasted 21 years with only localized repair patches and few if any tendon repairs since the early 1990s.

International Concrete Repair Institute Award of Excellence: Special Projects Category Awarded for the Roof Sundeck Rehabilitation at a Chicago Condominium Complex. The original roof sundecks were repaired, improving the durability and aesthetics of the sundecks significantly.

2013

National Aeronautics and Space Administration (NASA) Honor Awards, Group Achievement Award Awarded to Carlton Olson, Ethan Dodge, David Drengenberg, and Peter Kolf for the Concrete evaluation and repair of the DSS-35 Beam Waveguide Antenna at Canberra Deep Space Communications Complex, Australia, October 2013.

The Concrete Industry Board/ACI New York City Chapter, Roger H. Corbetta Award Awarded to the Construction team for superior concrete work on The World Trade Center Transportation Hub Transit Hall. CTLGroup was the concrete consultant for the mass concrete thermal control plans, November 2013.

2012

American Society of Civil Engineers (ASCE) T.Y. Lin Award Awarded to John Roller for the paper “Evaluation of Prestress Losses in High-Strength Concrete Bulb-Tee Girders for the Rigolets Pass Bridge,” published in the PCI Journal, Winter 2011.

2010

ASTM International - American Society for Testing and Materials Service Award Awarded to Howard Kanare commemorating more than 15 years of outstanding service.

2008

American Society of Civil Engineers (ASCE) T.Y. Lin Award Awarded to John Roller for the paper “Fatigue Endurance of High-Strength Prestressed Concrete Bulb-Tee Girders,” published in the PCI Journal, May-June 2007.

2007

International Concrete Repair Institute (ICRI) Award of Merit Parking garage repairs at a Chicago condominium complex.

2006

World of Concrete Most Innovative Building Product Awarded for The Rapid RH (Relative Humidity) Probe developed jointly by CTLGroup and Wagner Electronics.

2005

International Concrete Repair Institute (ICRI) Award of Excellence Rehabilitation of two hyperbolic cooling towers at a power plant in Pennsylvania.

2004

Post-Tensioning Institute (PTI) Best in Class, Strengthening/Rehabilitation category Strengthening of the Holcim Portland Plant Preheater Tower.

International Concrete Repair Institute (ICRI) Award of Excellence Strengthening of the Holcim Portland Plant Preheater Tower.

2003

Structural Engineers Association of Illinois (SEAOI) Award of Merit, 2003 Excellence in Structural Engineering Awards Structural repair designs to the Catholic Church of St. Joseph, Menomonie, WI.

Oak Park Historic Preservation Commission Historic Preservation Award Rehabilitation of Unity Temple, Oak Park, IL.

National Council of Structural Engineering Associations Project Merit Award Awarded to John Vincent for structural repair designs to the Catholic Church of St. Joseph, Menomonie, WI.

International Concrete Repair Institute (ICRI) Award of Excellence Structural repair designs to the Catholic Church of St. Joseph, Menomonie, WI.

Engineering Society of Detroit Outstanding Achievement Award for Building Design and Construction Bridge Street Bridge Deployment Project, Southfield, MI.

American Society of Civil Engineers (ASCE) Public Involvement Award, Illinois Section Awarded to John Vincent for structural repair designs to the Catholic Church of St. Joseph, Menomonie, WI.

CTLGroup is an internationally recognized expert consulting engineering and materials science firm. Our engineering expertise is complemented by one of the largest and most comprehensive private material and structural testing laboratories in the world. Our experts can address problems from the materials and structural perspectives to deliver an integrated solution.

During the past decades, CTLGroup has been involved in several challenging projects. They have completed thousands of projects in all 50 U.S. States and over 70 countries. Currently CTL Group has 5 remote offices in US in addition to their head offices in Skokie, CTL Group Qatar Offices is the most recent one and has been established to cater for the Qatari market specifically as well as covering projects in the middle east region.



Our locations

*Laboratory Services



Skokie, Illinois*

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FIELD INVESTIGATION OF CONCRETE STRUCTURES

The standard method of evaluating the quality of concrete or structures is to test specimens cast simultaneously for compressive, flexural, and tensile strengths. The main disadvantages are that results are not obtained immediately; concrete in specimens may differ from that in the actual structure as a result of different curing and compaction conditions and strength properties of a concrete specimen depend on its size and shape.

Several non-destructive test (NDT) methods of assessment have been developed to determine specific properties of placed and cured concrete. By using NDT assessments such as penetration tests and rebound tests, we can accurately measure concrete properties such as hardness, placement of reinforcement, voids, and crack depth.

CTLGroup-Qatar field investigation of concrete structures provides numerous methods for evaluating the performance of concrete structures, and provides evaluative data that indicates the structure integrity and performance.

Testing services

- Rebound Hammer Test: Assess quality and strength of site concrete
- Ultrasonic Pulse Velocity Test: Assess quality and strength of site concrete
- Concrete Core Extraction: Assess strength of concrete; for plumbing/electrical purposes
- Rebar Location + Cover-meter: Locating reinforcement in concrete
- Half-cell Potential Test/Resistivity Test: Reinforcement corrosion mapping
- Endoscopy/bore Scope: Inspect the in-accessible areas of structures, building components, Heritage structures, or pipes
- Load Test: Performance acceptance test for flexural members and bridges

Additional services

- Carbonation, Sulphate/Chloride Content Tests
- Calibration of Rebound Hammers

STRUCTURAL EVALUATION & REHABILITATION

Clients call on us to evaluate the cause and extent of structural or architectural problems associated with design, construction methods, and materials performance. CTLGroup also conducts investigations of catastrophic events such as structural failure and collapse. CTLGroup's structural evaluation teams are composed of licensed professional engineers, working closely with our materials scientists and chemists, whose analytical and physical testing augments the engineering findings, opinions, and recommendations.

CTLGroup's services include condition assessments, structural integrity evaluation, failure analysis, structural retrofits and strengthening, investigation of material durability issues, new construction problem troubleshooting, and preservation of historic structures.

CTLGroup offers a complete package of rehabilitation services including design drawings and specifications, cost estimating, construction administration and observations, and design-build. CTLGroup offers a full range of structural and architectural evaluation services for:

- | | |
|-------------------------|---|
| • Buildings | • Water and wastewater facilities |
| • Facades and roofs | • Dams and mass concrete structures |
| • Parking garages | • Tunnels and pipelines |
| • Bridges | • Sports arenas and stadiums |
| • Industrial facilities | • Pavements and civil structures |
| • Utility structures | • Foundations and subsurface construction |

LOAD TESTING

Load testing is a popular mean to demonstrate the capability of the structure to carry safely the design loads. The load testing can be applied on bridges, floor slabs, beams, etc. Typical situations that arise include:

- Uncertainties associated with current as-built conditions
- Suspect performance such as excessive creep deflection
- Structural strength unknown and analysis
- Impractical change of use involving a loading increase
- Bomb or fire damage
- Materials defect or structural deterioration
- Handing over criteria for newly constructed bridge
- Quality Assurance Method used after completing the repair and strengthening works (used to verify the loading capacity of the structure and confirm its structural integrity)

For bridge load test, the common method used for load application is loaded trucks (moving or static) which is sufficient to trigger the needed behavior of the bridge. Monitoring the deflection is usually undertaken for bridge load tests using sensors installed on the structure. Other parameters may also be measured such as crack widths, strain, and temperature.

For slab load test, it is common to use cement bags to apply to desired load. The bags will be laid on top of the slab in a particular shape and number to achieve the desired load. Cement bags can be substituted by water bags that can be filled on site. Sensors, usually LVDTs attached to the bottom of the slab, record deflection. Parameters can also be measured, such as crack width, strain, and checking the post-tensioning.



MATERIALS LABORATORY

CTLGroup-Qatar's Laboratory provides support to our consulting and field inspection services while providing forensic and testing services to our clients nationwide. Stringent quality assurance and quality control procedures provide results that engineers can rely on as they consider recommendations, products, and materials to be used for construction or repair projects. Our clients include building owners, contractors, law firms, concrete producers, material manufacturers, engineering firms, government agencies, facility owners, and suppliers. CTLGroup-Qatar's laboratory can perform testing on the following materials: cement, fly ash, slag, calcium carbonates, metakaolin, aggregates, veneer stone, pavers, concrete masonry units (CMU), chemical admixture, concrete coating, epoxies, anchor systems, and concrete. CTLGroup USA's laboratory can also provide forensic services such as petrographic analysis of concrete.

CTLGroup employees are active members of ACI, ASTM, NRMCA, PCI, ICRI, and other relevant association. Our laboratory accreditation includes: ISO 17025:2008, ISO 9001:2015, ISO 14001:2015, & OHSAS 18001:2007.

All testing is carried out strictly in accordance with the relevant specifications, be it British or American standard by professionally-trained staff. Testing equipment is regularly calibrated and the laboratory participates in correlation testing with other laboratories and proficiency sample programs. Our laboratory services include:

Aggregate Testing

CTLGroup-Qatar conducts aggregate testing that will assist customers with assessing the characteristics and quality of aggregates for use in concrete, building, and/or construction. These tests are conducted in our well-equipped laboratory by trained, competent staff. Site services may also be arranged for any sampling and testing required on site

Testing concrete and precast concrete products

CTLGroup-Qatar has a range of concrete tests, which are conducted in our laboratory. We offer a wide range of compressive strength tests on concrete cubes, cores, and precast products. Concrete Mix designs and mix verifications can also be performed. Site sampling and testing required on-site, such as making of test cubes and coring of concrete are another of our services

Chemical testing

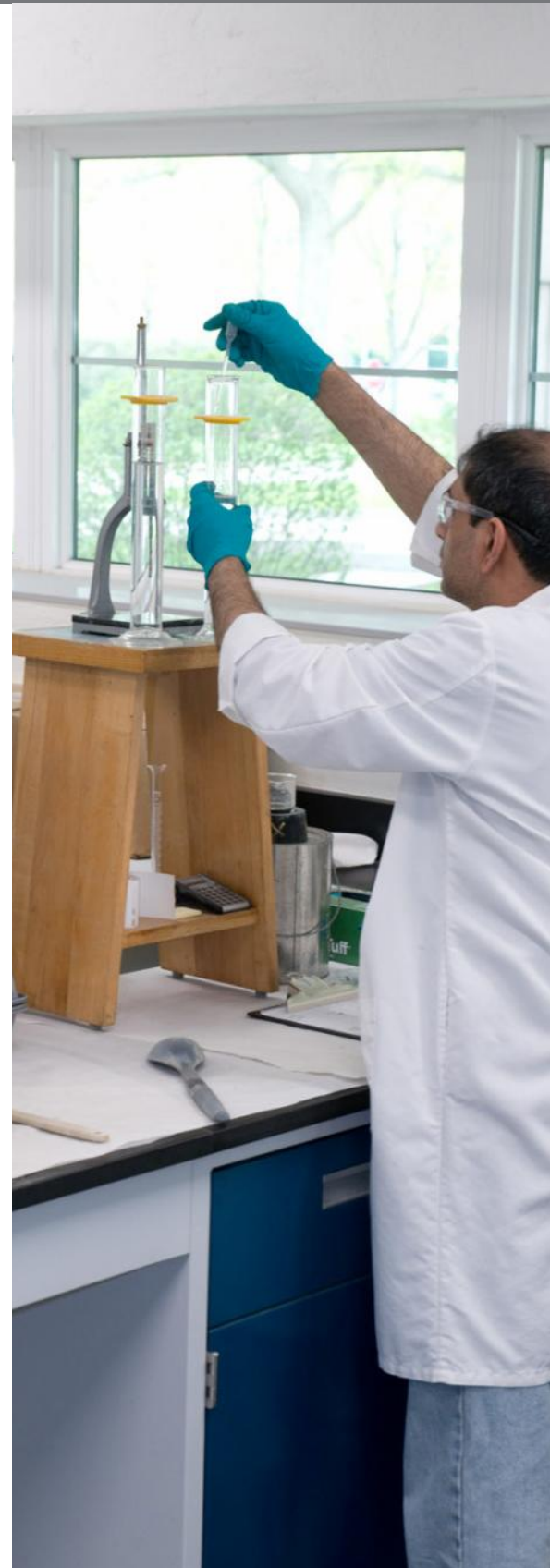
Full Chemical Analysis of OPC & SRC, Cement, GGBFS, Micro Silica, Fly Ash, Admixture, Testing of water, hardened concrete, mortar, plaster, as well as aggregates can be performed by our competent staff when required

Soil testing

Soil classification, CBR, proctor, field density, and plate load testing

Asphalt testing

Designing and testing for mix design properties, site coring, and bitumen testing





CONCRETE PERFORMANCE TESTING

A great deal of time, effort and expense can be wasted on in-situ testing unless the aims of the investigation are clearly established at the outset. These will affect the choice of test method, the extent and location of the tests, and the way in which the results are handled—inappropriate or misleading test results are often obtained as a result of a genuine lack of knowledge or understanding of the procedures involved. If future disputes over the results are to be avoided, an objective third party is essential at an early stage in the formulation of a test program.

Engineering judgment provided by CTLGroup-Qatar is inevitably required when interpreting results, but uncertainties can often be minimized by careful planning of the test program. A full awareness of the range of tests available—and, in particular, their limitations and the accuracies that can be achieved—is critical in Determining appropriate testing methods to be used. Some methods may appear to be very simple, but all are subject to complex influences. The use of skilled operators and appropriately experienced engineer are vital. In-situ testing of existing structures is seldom cheap since complex access arrangements are often Necessary and procedures may be time-consuming. Ideally, a program should evolve sequentially in response to results obtained in order to provide the highest quality information with minimum cost and disruption. This approach requires ongoing interpretation and will facilitate modifications in objectives, which may arise during the course of an investigation.

Aims of in-situ testing

CTLGroup-Qatar services cover the three basic categories of concrete testing, identified herein:

1. Control testing is normally carried out for the contractor or concrete producer to indicate adjustments necessary to ensure an acceptable supplied material.
2. Compliance testing is performed by the engineer according to an agreed plan to judge compliance with the specification. Where specific engineering expertise is required, CTLGroup USA can offer additional professional services.
3. Secondary testing is carried out on hardened concrete either in or extracted from the structure. This may be required in situations where there is doubt about the reliability of control and compliance results or specimens are unavailable or inappropriate, e.g.: out-of-date, damaged, or [deteriorating structure]. Testing which is not planned before construction would likely be in this category.

NRMCA PLANT CERTIFICATIONS

To make certain our clients receive the highest level of service and expertise, CTLGroup-Qatar has developed a range of quality assurance programs and guidelines. The certifications we have, and the employees who uphold them, are yet another part of our overall quality assurance program and attests to our high level of professionalism and commitment to quality. CTLGroup-Qatar has Certified Green-Star Plant Auditors and Truck Inspectors in staff to conduct Ready Mix Concrete Production Facilities Certifications.

NRMCA Green-Star Certification is a certification system specifically for ready-mixed concrete plants based on the development and implementation of an environmental management system. The certification of a concrete plant to the NRMCA Green-Star standards is through the National Ready Mixed Concrete Association (NRMCA), for both member and non-member companies. And, the NRMCA Green-Star certification is open to ready mixed operations across the globe.

The NRMCA Green-Star certification program requires that you develop and implement an environmental management system based on a classic “plan-do-check-act” model that contains the following key components:

- Gap Analysis - Part of the NRMCA Green-Star certification is identifying all of your positive and negative impact aspects.
- Environmental Policy – Becoming an NRMCA Green-Star certified facility means having a sound environmental policy.
- Program for Continual Improvement – The very basis of a successful environmental management system, and the NRMCA Green-Star program.
- Self-Evaluation Procedure – How is your company performing? The NRMCA Green-Star program, like all other environmental management systems, is based on the continual improvement model, and requires regularly auditing your facility.
- Environmental Training – Conducting environmental management system training is a vital, and necessary, component of the NRMCA Green-Star program.
- Staffing + Resource Commitment – It’s not enough to say you’re participating in the NRMCA Green- Star program, you have to fully commit to it.
- Public Outreach – A requirement of the NRMCA Green-Star program, but also a great way to proudly display your commitment to your employees, your community, and your environment.

In order to become NRMCA Green-Star certified, a concrete plant must have implemented an environmental management system through a minimum of one environmental management system cycle, and then be audited for conformance by an NRMCA Green-Star auditor.



SOIL TESTING

From Geotechnical engineering, used in abutment evaluation for dam and reservoir construction, to assessments for the foundations of houses, soil testing is a part of all forms of construction. The soil is in all of the construction.

Soil is a complex science that requires sound judgment, sharp technical skills, and up-to-date knowledge of construction practices. Let CTLGroup-Qatar's experts assist you with your on-site project needs. Scope of services includes:

- In-situ Density (non-nuclear)
- Plate Load
- Soil Classification
- CBR
- Stress/Strain of Soils
- Sieve Analysis
- Chloride Content
- Sulfate Content
- Laboratory Dry Density / Moisture Content Relationship
- Atterberg Limits
- Brazilian Test – Rocks
- UCS + Modulus of Elasticity of Rocks

ASPHALT TESTING

As an alternative to traditional Portland cement concrete pavements, asphalt pavements offer many improved benefits such as reduced crew size, equipment costs, and downtime of roadways. However, these benefits can be offset by improperly designed asphalt mixtures, out-of-date construction practices, and unreliable testing laboratories. CTLGroup-Qatar's experts can provide development of proper mix designs, guidance on construction practices, and knowledgeable technicians who can produce reliable results in the laboratory or in the field. Scope of services includes:

- Designing Asphalt Mixture (Marshall)
- Extraction of Bitumen (Centrifuge method)
- Extracting Asphalt Specimens (coring)
- Stability + Flow
- Theoretical Maximum Specific Gravity/Density
- Grading/Sieve Analysis of Asphalt Mixture
- Softening Point of Bitumen
- Water and Binder Content of Emulsified Asphalt
- Distillation of Bitumen
- Flash and Fire Points by Cleveland Open Cup Tester
- Solubility
- Saybolt Viscosity
- Residue by Distillation (Emulsion)
- Ductility
- Penetration of Bituminous Materials





NON-DESTRUCTIVE TESTING

We at CTLGroup-Qatar take pride in tackling the most difficult non-destructive evaluation (NDE) projects. Our NDE team often helps not only our own engineers and scientists, but also owners, designers, and contractors across the U.S. with their problems.

NDE is a relatively new and inexpensive way to determine the extent of damage or defective construction. Its use in civil engineering is analogous to the use of indirect sounding methods in medical examinations. Recent advances in testing techniques, equipment, and software have brought reliability and industry-wide acceptance to this discipline.

Non-destructive testing (NDT) can provide detailed information not obtainable from visual inspection or invasive sampling alone. This information is particularly beneficial in evaluating large concrete structures such as dams, bridges, and tall structures. The NDT data collected can be stored as a baseline for future studies, a useful resource in developing maintenance programs.

CTLGroup is a leader in designing and refining sophisticated NDE methods such as Impulse Response, Ultrasonic Tomography, Impact-Echo, and Impulse Radar. Our engineers have tested and proved these developments on sites throughout the world, and thus have stayed in the vanguard of the non-destructive evaluation industry.

The most complete investigation of structural problems is achieved through a careful mix of visual inspection, NDE, and minimally intrusive material sampling. Properly managed, this approach often costs less than a more traditional investigation while more clearly defining the problem. CTLGroup has the versatility, depth of knowledge, and breadth of experience to carry this out effectively. CTLGroup non-destructive testing services have many applications. Some of the most common include:

Subsurface characterization

- Locating tanks, utilities, and cavities
- Assessing foundation condition, pile length, and retaining wall depth

Concrete structures

- Locating embedded steel and assessing corrosion
- Identifying concrete defects in thick and heavily reinforced concrete
- Monitoring and analyzing vibration

Floor slabs and pavements

- Evaluating concrete quality, slab thickness, and support
- Locating dowel bars, subsurface voids, and internal delamination

Masonry structures

- Evaluating presence of reinforcing bars and grout in CMU walls
- Assessing in-situ stresses

STRUCTURAL HEALTH MONITORING

CTLGroup recently joined a select number of laboratories certified to provide testing services for input into the STADIUM®. CTLGroup has pioneered the development of tools and techniques for monitoring structural performance. These performance-monitoring systems use arrays of sensors, integrated with remote computers and status alarms, to alert owners and engineers to the behavior of structures. While these systems have a variety of applications, they are suited particularly well for on-site structural behavior monitoring of buildings, bridges, roadways, stadiums, dams and monuments.

CTLGroup can design systems to monitor a structure's long-term health as it ages, as well as to measure the structural impact of near-site construction, seismic activity or other unforeseen events. Vibration monitoring systems are available for structures that are adjacent to construction sites where the use of heavy pile drivers and vibratory hammers can affect existing buildings. Because of their unparalleled expertise and experience, CTLGroup engineers and scientists are uniquely qualified to offer customized, comprehensive services, including: instrumentation planning; system installation and maintenance; data monitoring, interpretation and reporting services; and/ or custom software interfaces for data analysis. Clients can count on turnkey solutions tailored to their specific needs.

CTLGroup uses state-of-the-art technology to measure and monitor vibrations in structures and construction sites and to evaluate the dynamic (modal) characteristics of structures. Vibration monitoring systems can be configured to alert personnel automatically when established threshold values are exceeded. Our experts can design, supply, install and implement monitoring systems to serve a wide range of purposes.

Sensors and instrumentation

CTLGroup has designed and built sensors and measuring devices for more than 50 years. All CTLGroup sensors are custom designed for specific applications, and built with the highest quality materials and workmanship. All come with calibration sheets and provide NIST-traceable results.

Load cells

CTLGroup produces load rods ranging in capacity from 1 to 400 kips and load cells ranging from 5 to 2500 kips. Using the latest advancements in strain gage technology, CTLGroup experts can build load cells with less than 1% nonlinearity.

Strain-gage-based sensors

Strain-gage-based sensors can be designed for any application – to measure strain in steel or plastic, or for embedment in asphalt or concrete. CTLGroup strain gages use a full-bridge configuration for long-term stability, high output and lower signal conditioning costs.

Multi-depth deflectometers

With the introduction of its new SnapMDD, CTLGroup has streamlined and simplified the design and use of the multi-depth deflectometer. The SnapMDD significantly reduces the time and cost of measuring the load-bearing performance of multi-layer strata and pavements.

CTLGroup provides remote access using hard-wired or cellular modems or through hard-wired or wireless network connections. The systems compare measured data to predetermined response values in real time, and then use dial-out modems to activate visual/ audible on-site alarms or send notification by phone or email.

Data storage/management options

Data from remote monitoring locations can be stored onsite for later retrieval or posted to a website for password-protected access.

REPAIR DESIGN

Because of our vast exposure to concrete deterioration and previously unsuccessful repairs, CTLGroup Qatar experts are able to customize our evaluation and repair programs to provide the most responsive, cost-effective solutions. With a wide range of performance deficiencies and client needs, each of our repair projects is unique.

CTLGroup Qatar has an in-depth knowledge of current and historic construction materials for historic restoration projects. We can investigate how the structure was originally designed and built, review repairs made over the life of the structure, analyze/design replacements to simulate obsolete construction materials, and develop repairs to restore the structure.

CTLGroup Qatar offers the most sophisticated suite of engineering, testing and consulting services to address concrete performance, durability and life-cycle serviceability with the most progressive repair and restoration techniques available in the construction industry today.



One of the most notable things about CTLGroup-Qatar is the fact that we operate under a wide umbrella that covers our numerous capabilities and vast array of professional services. That umbrella is expanding as we continue to expand into new markets and add strategic services to help our clients with both their challenges and opportunities.

Across the construction life-cycle, CTLGroup' experts help define root cause problems and propose repair solutions. We also lend crucial support to manufacturers in the development and testing of new products. Our engineers, architects, material scientists and technical specialists bring a multi-disciplinary approach to the complex challenges of our clients around the globe.

BUILDINGS + FACILITIES

Material cracks or discolorations bring our structural engineers into the field for evaluation and problem assessment. Suspected seepage sends our non-destructive testing (NDT) teams out to do infrared inspections. Surface peeling signals our petrographers to conduct core studies. Ambient vibration causes unique problems that we monitor and analyze, and for which we engineer solutions. CTLGroup-Qatar's maintenance plans and service-life projections keep our buildings and facilities clients in business.

The needs of our Buildings + Facilities clients vary considerably. Whether it is a deteriorated structure, leaking basement or a fire damaged facility, we have you all covered. CTLGroup-Qatar expertise consistently brings value to each project, providing innovative and cost effective solutions. Our primary areas of practice include:

- Building envelope studies, maintenance, rehabilitation + repair programs
- Design + installation of structural monitoring systems
- Failure + forensic investigations
- Non-destructive field testing of structural assemblies + components
- Strength + service evaluation of existing building structures
- Development of practical solutions to address structural deficiencies
- Troubleshooting construction problems + techniques leading to improvements in safety and efficiency
- Geological + geotechnical considerations
- Concrete moisture investigations
- Flooring consulting + testing
- Green building, infrastructure, pavement + materials practices

CTLGroup's Buildings + Facilities Practice Group helps clients with complex structural and materials issues affecting:

- University + education buildings
- Healthcare + laboratory buildings
- Municipal buildings
- Historic buildings + landmarks
- High-rise commercial + residential buildings
- Parking garages + structures
- Stadiums
- Cultural + religious facilities
- Manufacturing + industrial plants





TRANSPORTATION

CTLGroup-Qatar has extensive experience in the structural evaluation and innovative improvement of bridges, tunnels, underpasses and culverts. Our project expertise worldwide encompasses the entire lifecycle of bridges, from design optimization and construction innovation; to construction planning, material testing and troubleshooting during construction; to structural health monitoring; load testing to extreme in-service event analysis; to extending service life and rehabilitation of aging structures.

The firm also has a long history of bridge engineering improvement. Our signature services include the inspection and evaluation of cable-supported bridges, as well as cable damping and non-contacting cable force measurement. Additionally, we perform suspension bridge and tied-arch hanger force measurement and ultrasonic flaw detection for cable anchorages. One of our most noted projects, the Hale Boggs Memorial (Luling) Bridge, involved a complete stay-cable replacement for the 1,221 foot long bridge.

Our integrated consulting and laboratory testing services, as well as our multi-disciplinary approach to all projects, allow us to provide a vast range of solutions for both new and existing bridges alike. For the evaluation, maintenance and upgrade of existing bridges, we have provided:

- Comprehensive non-destructive testing of post-tensioned and reinforced concrete
- Field inspection and condition assessment
- Failure analysis and investigation
- Remote wireless structural health monitoring systems
- Corrosion rate monitoring and service life assessment
- Post-tensioning tendon inspection and rehabilitation
- Service life modeling
- Bridge Load Testing (both Static and Dynamic)

WATER & WASTEWATER

CTLGroup-Qatar helps managers, contractors, government agencies and others in the water + wastewater sector by providing condition assessment, failure causation investigation, structural evaluation, materials consulting and repair/rehabilitation consulting. These types of projects often create unique challenges, related access limitations, safety and timing. Drawing upon experience gained from successful execution of hundreds of projects in the USA, we are well versed in handling such challenges.

Replacement or rehabilitation of existing infrastructure often requires considerable monetary resources. Therefore, many incentives exist to maximize the service life of our existing and future infrastructure components. In the past, many owners in the water + wastewater sector have made important decisions related to the disposition of an asset based on consideration of age or overall appearance (if readily visible). However, shortages in monetary resources have served to provide a strong incentive for taking a different approach to asset management. Implementing strategies for prolonging service life and building more sustainable infrastructures have now become a priority.

Like most other civil structures, water and wastewater structures are subject to deterioration with age. However, the mechanism(s) of deterioration can be somewhat different than most structures due to the unique circumstances under which they are constructed and operated. Concrete distress resulting from alkalisilica reactivity (ASR) and delayed ettringite formation (DEF) are examples of atypical deterioration mechanisms that can affect dams and levees. CTLGroup-Qatar's engineers and material scientists have the experience and resources needed to reliably diagnose these deterioration mechanisms and others, in order to provide clients with the valuable guidance needed to properly manage these important structures. CTLGroup-Qatar has experience with a significant number of water and wastewater structures including:

- Dams + Levees
- Pump Stations
- Pipes + Tunnels
- Tanks + Reservoirs

OIL & GAS

For the past three decades, CTLGroup USA has successfully completed various projects in the oil and gas sector— mainly assets related to industrial facilities. Our services involved everything from materials consulting to Non-Destructive Testing to design review to structural evaluation and rehabilitation. We have worked on piping, towers and main plant structures. We also evaluate and assess refineries, cooling towers, chimneys, sulfur pits and various others. CTLGroup prides themselves on their ability to provide practical, cost-effective solutions to any material or structural issue no matter how complex.

Industrial facilities operations involve several challenges and concerns including protection from deterioration and the serviceability of its assets. They also encounter the need to address all safety requirements as well as minimizing any discontinuation in operations. Thus, it can become critical for asset owners to handle all of these concerns in a timely manner without affecting the productivity of their facilities.

Our focus and experience in structural repair, maintenance, and upgrade of industrial infrastructure makes us the logical choice for demanding industrial projects. Our industrial teams recognize the need to ensure continuing plant operations. Our work is carried out under the highest safety standards while minimizing the impact on critical manufacturing or processing activities:

- Sulfur Pits
- Refineries
- Cooling Towers
- Silos + Warehouses
- Chimneys + Coker Drums



ROADS & PAVEMENT

CTLGroup-Qatar's laboratory facilities and pavement engineering staff provide clients with practical solutions for highway construction that maximize efficiency every step of the way. We provide testing and consulting services to concrete suppliers, contractors and transportation agencies on pavement projects nationwide. Combining expert material testing with experienced engineering and consulting services, we address complex issues anywhere in the pavement construction and maintenance cycle.

In the pre-bid and bidding stages, CTLGroup-Qatar works with clients to save time and money with material considerations, design and specifications review, risk analysis and various pavement design services, as well as many specialized services:

=

- Concrete mixture design optimization
- Hands-on consulting regarding aggregates, cement, cementitious materials, concrete
- workability, durability and every other mixture design consideration
- Identification of chemical admixture compatibility issues before they occur
- Consideration of sustainability throughout the process

We conduct chemical and physical testing of materials to identify potential adverse chemical reactions or to optimize the use of chemical admixtures, as well as testing to establish the workability and setting characteristics of paste, mortar and/or concrete. CTLGroup-Qatar also offers a comprehensive list of testing and consulting services to optimize efficiency in the pre-construction and construction phases:

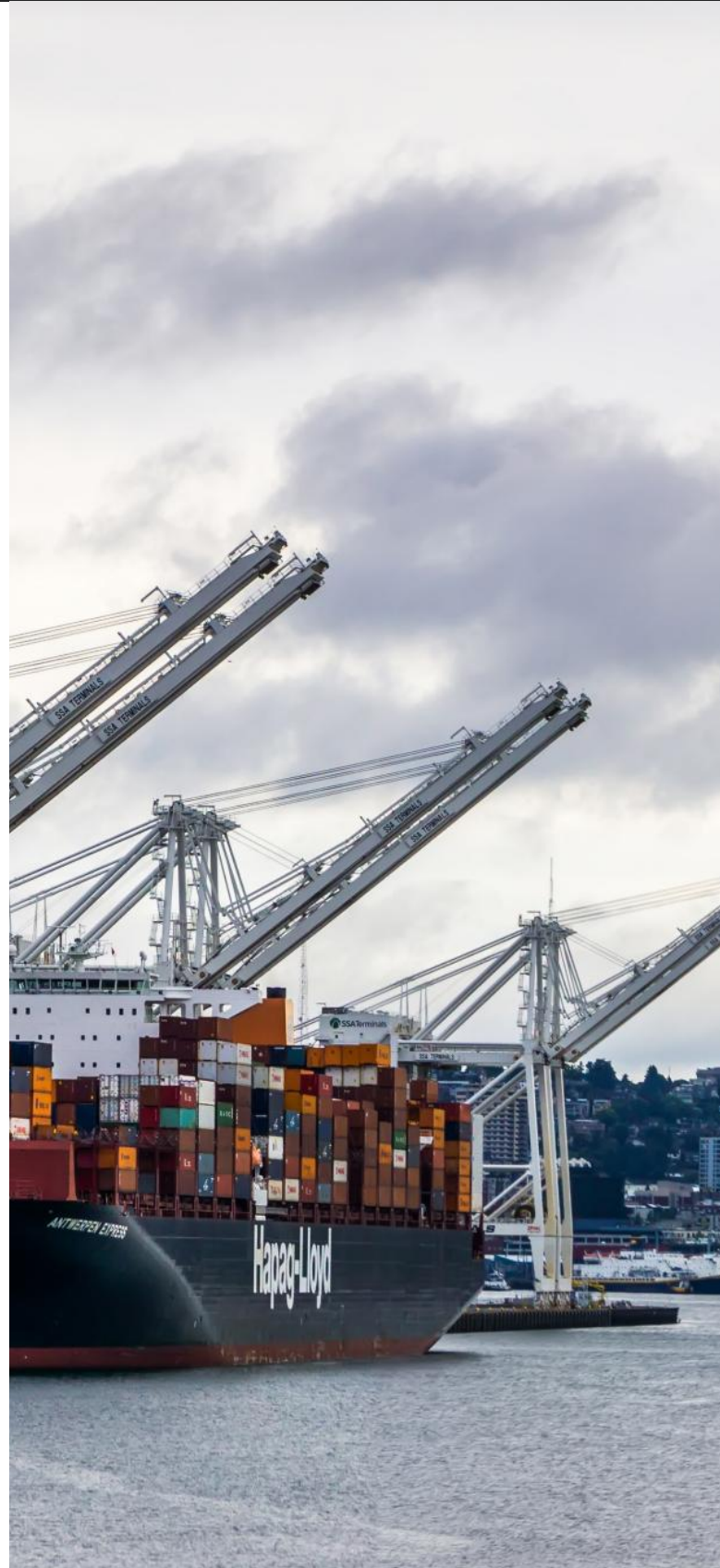
- Material evaluations
- Quality control testing
- Specifications review and changes for improved constructability and schedule
- Highly specialized trouble shooting services

MARINE STRUCTURES

A combination of aging and lack of funding are usually the main two factors that lead to accelerated deterioration of existing infrastructure assets. Today, thousands of marine structures (dams, jetties, ports) are in dire need of rehabilitation to meet current durability design and safety standards. CTL Group-Qatar's experts have been called on by both public and private owners and managers to help assess the concrete durability and develop repair and maintenance programs that help in extending the life-cycle of those structures as well as developing asset management practices.

Marine structures' owners, government officials, engineers, and emergency management professionals need to move towards a risk-based decision-making approach for the design, rehabilitation, and operation of dams. A risk-based approach will enable better utilization of limited funding, and will allow for a better prioritization of projects, by focusing on repairs and operational changes that allow for a better management of these critical assets.

Along our most advanced solutions offered for this sector are service life prediction models using STADIUM® Software. STADIUM® is sophisticated finite element analysis software which reliably predicts concrete degradation kinetics and time before the initiation of reinforcing steel corrosion. Unlike simplistic mathematical models, STADIUM® considers a wide range of physical and chemical phenomena that have a strong influence on long-term performance and overall service life.





CEMENT FACTORIES

CTLGroup's specialized consulting in process engineering addresses four intertwining aspects of cement production: quality, equipment performance, energy use and environmental compliance. In terms of Quality, we solve quality problems in:

- Raw mix design and optimization
- Clinker composition
- Finish grinding and cement performance
- Laboratory operations
- Calibration standards for raw materials

In terms of Equipment Performance, we recommend improvements that lower costs for:

- Raw mix preparation, including proportioning, blending and grinding
- Finish mill circuits, including presses, ball mills and separators
- Air flow, material and heat balances

In terms of Energy Use, a CTLGroup energy audit and pyroprocessing investigation assesses:

- Raw materials' and fuels' effects on internal volatilization cycles
- Alkali bypass efficiency
- Clinker granulation and dust formation
- Refractory life and kiln coating stabilization
- Preheater build-ups and plugging
- "Snowman" formation + "red rivers" in the grate cooler
- Cement kiln dust (CKD), alkali bypass dust and clinker cooler dust
- Burning zone conditions, combustion-burner pipe configuration and flame shape
- Effect of alternate raw materials and fuels on clinker formation and kiln operation
- Kiln operation stability, flushes, temperature cycling and coating loss

In terms of Environmental Compliance, CTLGroup experts assist cement manufacturers to comply with the provisions of the Clean Air Act by helping you:

- Reduce NO_x, SO_x, CO, HCl, hydrocarbon, opacity and PM -10, PM-2.5 and PM-1 emissions
- Improve efficiency of dust collectors
- Optimize mill air flow to control dust collector catch for enhanced production
- Improve versatility of dust collection systems to permit product enhancement
- Identify and control fugitive emissions

READY-MIX COMPANIES

We provide the ready mixed concrete industry with much more than just standard testing services. CTLGroup began its 95 year history as the Research and Development arm of the Portland Cement Association, and in that time we have provided research, engineering and consulting services to various clients, including ready mixed concrete suppliers, precast producers and contractors.

Our expertise includes developing specialized concrete mixture proportions to meet challenging placement requirements or modern performance specifications. We help improve overall concrete production quality, plant performance and environmental compliance, and we assist with on-site plant set up and qualification. Additionally, CTLGroup experts optimize proportions to help clients gain a competitive edge, meet performance based specifications and determine difficult mixture interactions in the field. CTLGroup provides products and services such as materials testing and new product development as well as education and training.

Plant Services and Optimization

- On-Site Batch Plant Configuration and Troubleshooting
- Quality Control Evaluations, Equipment Performance Inspection and Plant Audits
- Energy Use Audits and Environmental Compliance Testing

Mixture Proportion Consulting and Optimization:

- Review of Concrete Mixture Proportions and Specifications
- Aggregate Optimization and Void Space/Particle Packing Analysis
- Mixture Development for Creep and Shrinkage Performance
- Sustainable Concrete Mixture Development to Reduce Carbon Footprint
- Low Heat Mass Concrete Mixture Optimization
- Fiber Reinforced Concrete (FRC)
- Flowable, Tremie and Self-Consolidating Concrete (SCC)
- Rapid Setting or High Early Strength Concrete
- Mixture Development for Durability/Service Life Requirements or Performance Based
- Specification Assistance
- Mixture Cost Optimization

Engineering and Problem Solving:

- Concrete Precooling and Thermal Analysis
- Extended Slump Life/Pumpability Troubleshooting
- Setting Time/Early Strength Troubleshooting and Maturity for Early Formwork Removal
- Formwork Pressure Assessment
- Admixture - Cementitious Material Interaction and Fly Ash Troubleshooting



NUCLEAR

CTLGroup's extensive nuclear power industry experience, world-class consulting and testing capabilities and NQA-1 capabilities are compelling reasons to engage us for critical activities across the construction /maintenance lifecycle. We will dedicate the right team and resources to each project to ensure that our track record of excellence, responsive service and quality results work to your advantage every time. Clients will always find that type of partnership in every instance where CTLGroup is engaged to assist in solving complex challenges in the nuclear power industry. CTLGroup has conducted over 100 projects for the nuclear industry. Some of the more notable projects include:

- Large scale multi-axial structural tests on prototype concrete containment to quantify structural behavior and serve as the basis for code design requirements.
- Development of specialized concrete mixture design placement techniques and quality control criteria
- Creep and shrinkage tests for nuclear power plant containment vessels
- Non-destructive testing and evaluation to assess concrete containment structures
- Mass concrete evaluation and thermal control planning
- Properties measurement of concrete cores extracted from various nuclear plants
- Material qualification tests and petrographic evaluation of in place concrete
- Peer review of the AP 1000 reactor design by Westinghouse

CTLGroup had developed and implemented one of the most demanding Quality management Systems in the world for testing materials and structural components. Through our QMS, CTLGroup has achieved various credentials from organizations throughout the United States and around the world, including:

- The CTLGroup Quality Management System received a satisfactory assessment (No Findings) by the Nuclear Industry Assessment Committee (NIAC). The results of the audit confirmed that the CTLGroup Quality Management System meets the requirements of 10 CFR 50, Appendix B and NQA-1.
- CTLGroup's laboratory is accredited by IAS to the ISO standard 17:025
- CTLGroup is also AASTHO accredited and validated by the U.S. Corps of Engineers





SUPERTALL BUILDINGS

In working with SuperTall structures, experience matters. Understanding construction requires comprehensive, expert knowledge at every stage. With nearly 100 years of industry experience, CTL PC has consistently taken concrete technology to higher levels with revolutionary advances in SuperTall materials science and construction practices. A unique cross-disciplinary mixture of specialized skills and techniques provides extraordinary breadth and depth to resolve even the most complicated issues.

As a proven worldwide leader in SuperTall concrete consulting and materials testing, CTL PC's core capabilities address some of the most critical but common concerns:

Concrete Consulting

- Specification review and recommendations
- Mass concrete
- Sustainability
- Specialized mixture proportioning
- Laboratory trial mixture development
- Formwork pressure analysis
- Creep and shrinkage modeling
- Service life modeling

Materials Testing

- Fresh properties: slump, air content, temperature, density, yield, workability, pumpability and thermal control;
- Hardened properties: strength, stiffness, creep, shrinkage, and air void;
- Durability: permeability, alkali-silica reactivity (ASR) and sulfate resistance;

CTL PC's proven construction experience enables us to consistently provide state-of-the-art, cost-effective solutions to challenging demands of SuperTall structures that include:

Foundation Evaluation

- Design/peer review
- Construction monitoring
- Load and integrity testing

Construction Quality Oversight

- Constructability reviews
- Formwork design and construction
- Reinforcement placement



GREEN STRUCTURES

Contractors, building owners + operators, engineering and architectural firms, as well as manufacturers, are looking for green solutions. We started decades ago at CTLGroup. Green building design is an integral part of our practice.

CTLGroup's green building consultants provide a comprehensive variety of engineering, consulting, research and testing services that support sustainability of the built environment:

- Efficient use of energy, materials and resources
- Solar Reflectance Index testing (SRI) for LEED compliance
- Environmental product declaration and third party verification for cements
- Low carbon cementitious materials and concrete mixture design

Additional services include:

- Building envelope engineering, including insulation, thermal mass, air barriers, vapour retarders, and moisture mitigation
- Energy code compliance
- Remaining service-life analysis, performance assessment and analysis of existing buildings and structures
- Thermal property testing
- Service-life assessment

CTLGroup has the depth of green building design experience matched by few and has been making the world a greener place, project by project, for over 30 years in several ways:

- Contributing to the development of ASHRAE/USGBC/IES Standard 189.1 Standard for the Design of High Performance Green Buildings (since 2006) and ASHRAE 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings (since 1990)
- Testifying at the International Green Construction Code Hearings (IGCC) in August 2010 and the International Energy Conservation Code Hearings (IECC) since 2002
- Helping owners keep their facilities in good, safe working condition



Key Personnel



Chadi Y. Said

GENERAL MANAGER + TECHNICAL COORDINATOR (CTLGROUP QATAR)

Mr. Said has around 16 years of experience in the engineering and contracting industry with focus on condition assessment and repairs of old and deteriorated infrastructure facilities, building materials and concrete technology, construction of fast track projects and infrastructure asset management solutions. Prior to joining CTLGroup-Qatar, Mr. Said worked at IKK Group – Saudi Arabia where he co-founded a new engineering firm Inspectech that offered advanced civic solutions to Asset Owners and Facility Managers through integrating state-of-art technology with assessment and maintenance methods. In 2016, he was assigned as R+D Manager for special projects where he led the development of several services offered by various business units at Kabbani Group including maintenance, testing, repair, waterproofing, flooring, and construction works.

Industry Experience

16 Years Industry Experience

Credentials

Master of Business
Administration
London Business School; 2016
B.Eng in Civil Engineering
Lebanese American University;
2005

Training + Certifications

Bullet Proof Manager -
CRESTCOM, 2015
Conceptual + Strategic Selling -
Miller Heiman, 2012
Strategic Project Management,
2011
Construction Contracts +
Contracting Management -
CMCS, 2010
Occupational Health + Safety –
CMCS, 2009
Safety Inspection of In-service
Bridges – NHI, 2008

Contact Information

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Relevant Project Experience

Condition Assessment

- Oversaw the execution of more than 350 projects related to Inspection, Testing and Appraisal for various infrastructures in GCC region including bridges, roads, buildings, industrial facilities, among many others

Structural Health Monitoring Load Testing

- Involved in the design, execution, engineering and testing monitoring of several automated monitoring and load solutions for buildings and bridges

Repair + Maintenance of Existing Structures

- Managed several critical projects that involved repair, strengthening and remedial waterproofing works for leaking basements, tunnels and buildings

Construction of Fast Track Projects

- Planned, supervised, coordinated and managed several construction activities contributing to successful completion and handing over of several landmark projects (Texas A+M Engineering College, NDIA Project, Al Barwa Residential Complex)

R+D Projects

- Collaborated with academic professors and institutions to develop a Bridge Management Software that helps governmental agencies (MOTs + Municipalities) to manage and optimize the lifecycle of their transportation structures
- Pioneered the development of inspection and maintenance solutions for several landmark projects (KAMC, MUST, NWAFFH, DURP, KAUST, among others)



Mahmoud Al Shboul

LABORATORY MANAGER (CTLGROUP QATAR)

Mr. Al Shboul oversees the day-to-day activities of the operation team as well as overall management of ongoing projects. In addition to his responsibilities towards ensuring quality and timely deliverables, Mahmoud is involved in several initiatives related to quality assurance and control programs such as NRMCA Inspection + Audits.

Prior to joining CTLGroup-Qatar, he was at Lafarge Ready Mix – Jordan where he was in charge of quality practices with focus on building materials and concrete technology. He has attended numerous training courses and acquired several certificates related concrete testing, inspection and quality control.

Industry Experience

10 Years Industry Experience

Credentials

Bachelor of Civil Engineering
Jordan University for Science +
Technology, 2011

Member of Qatar Engineers
Association 2016

Training + Certifications

Plant Inspector Engineer
(NRMCA), 2016

Measurement of Uncertainty,
IAS, 2016

Concrete Field Testing - ACI, 2014

ISO 17025 – International
Accreditation Service, 2011

STAAD pro Reinforcement
Concrete Analysis + Design,
Jordan Engineers Association
(JEA), 2010

Primavera P6, (JUST) – 2010

Contact Information

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Relevant Project Experience

Material Testing

- Planned, supervised, coordinated and managed several material testing activities for concrete, soil, asphalt, cement, mortar, chemistry, water
- Enhanced several practices and processes related to daily laboratory operations

Condition Assessment

- Oversaw the execution of more than 75 projects related to Inspection, Testing and Appraisal for various infrastructures including bridges, marine structures, buildings, industrial facilities

Quality Assurance

- Collaborated and Developed in line with Quality Manager several in-house quality procedures, standards and specifications
- Assured consistent quality of operations by developing and enforcing the policies, validating processes and documentation

Concrete Technology

- Designed concrete mixes from M5 Grade to M100 Grade
- Conducted numerous laboratory tests to determine the properties and performance of construction materials such as cement, stone, sand, and chemical mixtures

Nondestructive Testing

- Performed several nondestructive testing to identify extent of damage and corrosion in reinforced concrete structures including IP, IE, UPV, GP, etc.



Nemer El Hamra

BUSINESS DEVELOPMENT MANAGER (CTLGROUP QATAR)

Mr. El Hamra has around 11 years of experience in testing and instrumentation field and has been involved in more than 100 projects related to investigations, testing and assessment for various infrastructures. Mr. Hamra holds a bachelor degree in Management Information System and has completed several international training programs related to material testing, concrete technology and nondestructive testing.

Prior to joining CTLGroup-Qatar, Nemer worked as NDT specialist at INSPECTECH (a specialized engineering unit that provides advanced civil solutions). During that time, he was involved in the successful execution of several challenging engineering projects related to field investigation, nondestructive testing, structural health monitoring and load testing.

Industry Experience

11 Years Industry Experience

Credentials

Bachelor of Science
(Emphasis on Management
Information Systems)
American University for Science
+ Technology, 2009

Training + Certifications

Fundamentals of Concrete
Training + Testing,
ASTM + ASHGHAL, 2018
Nondestructive Testing Methods
+ Techniques, GSSI – Proceq +
Germann Instruments, 2014
Discovery Program “Advanced in
Concrete Repair + Assessment”,
KCG, 2013

Contact Information

+974 5591 9173
NElHamra@CTLGroupQatar.com

Relevant Project Experience

Non-destructive Testing

- Executed and managed more than 75 projects involving nondestructive methods such as Impact Echo, Impulse Response, Ground Penetrating Radar, Corrosion Rate + Potential Measurement, Schmidt Hammer and Ultrasonic Pulse Velocity
- Developed several quality procedures to enhance quality of deliverables related to NDT works

Condition Assessment

- Involved in the successful execution of numerous structural appraisal projects for various infrastructures including bridges, roads, water tanks, marine structures, buildings, industrial facilities, and more

Educational Workshops, Seminars, + Presentations

- Participated in several international workshops and training programs related to concrete technology, nondestructive testing, concrete repair, remedial waterproofing and strengthening works

Development of As-Built Drawings

- Managed several projects that required verification and development of Structural As-Built Drawings which included providing geometry and dimensions of structure as well as number, spacing, overlaps and diameters of steel reinforcement

Underground Utility Mapping

- Participated in several projects that involved identification and mapping of several underground buried objects such as pipes, boxes, cables



Daher A. El Mokdad

HEAD OF NDT & INSTRUMENTATION DIVISION

Mr. Mokdad has 14 years of experience in the specialized engineering and testing industry with the focus on nondestructive testing, material evaluation, condition assessment, field instrumentation and data collection as well as concrete repair and strengthening. Prior to joining CTLGroup-Qatar, Mr. Mokdad has worked as Operations Manager for 8 years at INSPECTECH and 4 years as business development at STRUCTURAL (Specialized Companies within IKK-Group KSA). During this period he oversaw execution and successful handing over of several projects related to testing, assessment, monitoring, repair and strengthening of various infrastructures

Industry Experience

14 Years Industry Experience

Credentials

B.Eng in Computer &
Communication – Islamic
University of Lebanon 2007

Training & Certifications

GPR Data acquisition and
processing – Jeddah – May 2015

GSSI - Product Introduction
Seminar – Jeddah – Feb – 2014

NDE/NDT for Bridges & Highways
– New York – 2013

BDI - Product Conference –
Colorado – Aug – 2013

Olsen Engineering – Seminar –
New York – Aug – 2013

GSSI – Product Seminar – New
Hamshire – Aug-13

SHM Systems – June 2013

GPR analysis Software (RDXPRO
_ RDXCAD)– January 2011

ACI Certification – Concrete Field
Testing – Mar – 2009

Cathodic Protection CP1- Abu
Dhabi – Jan 2009

Relevant Project Experience

Condition Assessment/ Non-destructive Testing

- Executed and managed more than 300 projects involving nondestructive methods (Impact Echo, Impulse Response, GPR, ERT, Corrosion Rate & Potential, Schmidt Hammer and UPV)
- Preparing Technical Proposals/Commercial Offers for New Projects.
- Managing a team of specialized engineers to execute granted projects (Site Works, Data Analysis & Report Preparation).
- Meeting Clients to insure their satisfaction on the executed projects and discuss/solve any problem that occurs during project execution.
- Involved in the successful execution of numerous structural appraisal projects for various infrastructures including bridges, roads, water tanks, marine structures, buildings, industrial facilities, and more

Structural Health Monitoring, Load Testing

- Executed and managed various projects involving structural health monitoring, load testing for buildings and bridges.

Repair + Maintenance of Existing Structures

- Managed several critical projects that involved repair, strengthening and remedial waterproofing works for leaking basements, tunnels and buildings
- Generated new sales opportunities by developing relationships with new and existing clients.
- Prepared Repair Procedures/ Technical Specifications for different type of repair projects.
- Estimating & Pricing Concrete Repair / Strengthening projects.
- Providing Technical Support for obtained projects through preparing method statements, meeting consultants, proposing alternative repair solutions, etc....



Dennis McCann, Ph.D., P.E.

CHIEF OPERATING OFFICER + VICE PRESIDENT (CTLGROUP USA)

As CTLGroup's Chief Operating Officer, Dr. McCann is responsible for daily operations, but as a consultant, he specializes in failure investigation, performance evaluation, and risk assessment of structures and infrastructure. He has studied the cause of catastrophic structural collapses and has responded in the aftermath of several major natural disasters. He has also investigated design and construction defects or deterioration that has resulted in loss of performance or undesirable structural behavior, to which he has developed and implemented monitoring systems to assess the behavior and health of in-service structures and infrastructure. Dr. McCann also has a strong background in engineering mechanics with a specialty in structural dynamics and vibrations, as well as probabilistic analysis to support risk management and decision-making.

Industry Experience

7 Years with CTLGroup
25 Years Industry Experience

Credentials

Ph.D. in Civil Engineering
The Johns Hopkins University,
2001

M.S.E. in Civil Engineering
The Johns Hopkins University,
2000

B.S. in Civil Engineering
University of Notre Dame, 1993

Licensure/Certification

Professional Engineer
FL, IL, IN, IA, KS, MI, MN, NC, OH,
VA, WV, VA

NCEES

Affiliations

American Association for Wind
Engineering

American Concrete Institute

American Institute of Steel
Construction

Contact Information

(847) 972-3266
DMcCann@CTLGroup.com

Relevant Project Experience

Failure Investigation + Disaster Response

- Investigated the collapse of a 10-story rack structure in Wisconsin, including field investigation and evidence retrieval, design review, and computational analyses to assess the stability of the structure.
- Managed the failure investigation of a box-girder bridge in New York that collapsed during a concrete deck pour. Conducted design review, assessed construction loads and performed finite element analyses.
- Managed the investigation of a partial roof collapse at an Illinois warehouse that occurred during a severe weather event. Evaluated roof structural and drainage systems design and construction.
- Coordinated the collapse investigation, including nondestructive examination, metallurgical studies, design review, and structural analysis of a form traveler used to construct a cable stayed bridge in Puerto Rico.
- Evaluated damage to residential, commercial and industrial properties following natural disasters including Hurricane Katrina, Hurricane Ike and Midwest flooding and tornadoes.
- Assisted chemical engineers with root cause analysis following several explosions by performing structural blast indicator analysis.

Vibration Analysis + Mitigation

- Managed a vibration study of large reactors at a chemical processing facility in Illinois. Performed modal testing, monitored vibrations during operations, conducted structural condition assessments and made recommendations to mitigate unwanted vibrations and improve long-term performance.
- Studied damage to residential structures in Texas reportedly caused by ground excitations from nearby natural resource exploration by performing statistical analysis of vibration records and reviewing typical dynamic response characteristics.

Structural Monitoring

- Prepared instrumentation, placed sensors, and analyzed vibration and displacement data for short-term structural monitoring program for municipal light rail support structure.
- Investigated monorail driveshaft failure in Nevada. Assisted with planning and installation of sensor network to monitor operating performance and analyze data.

Structural Performance Assessment

- Evaluated the impact of interior wall corrosion on the performance of two steel stacks at a chemical processing plant in Louisiana. Assisted plant managers with risk analysis and recommended repair alternatives.



Richard Kaczowski, P.E., S.E.

VICE PRESIDENT + GROUP MANAGER (CTLGROUP USA)

Mr. Kaczowski's professional experience encompasses construction problem investigation, building envelope leakage assessment, field and laboratory testing, repair design, structural analysis, code compliance evaluation, project management, construction product development and intellectual property consulting. Prior to joining CTLGroup, Mr. Kaczowski served as Vice President at a national engineering consulting firm, where he oversaw the construction technology division and specialized in the evaluation and repair of building exterior envelope systems, structural failure investigations, and steel/timber/concrete design. He also spent nearly a decade in R+D for a leading building materials manufacturer, directing a laboratory group responsible for new building product development and code compliance evaluations.

Industry Experience

7 Years with CTLGroup
33 Years Industry Experience

Credentials

M.S. in Civil/Structural Eng.
University of Illinois, 1984
B.S. in Civil/Structural Eng.
University of Illinois, 1983

Licensure/Certification

Structural Engineer
IL
Professional Engineer
AR, FL, GA, ID, IL, IN, MI, MN,
MS, MO, NE, NY, NC, PA, SC, SD,
TN, UT, WI, WY
NCEES

Affiliations

American Institute of Steel
Construction
ASTM International
Structural Engineers Association
of Illinois

Contact Information

(847) 972-3346
RKaczowski@CTLGroup.com

Relevant Project Experience

Structural Evaluation + Repair

- Investigated structures subjected to storm damage, distress from settlement, foundation failures, failures during construction and damage from blast, vibration or impact.
- Designed and analyzed power and industrial facilities, including nuclear containment structures, piping, equipment, storage tanks and cranes.

Building Envelope Assessment

- Performed repair design for building exterior envelope systems, addressing: brick and stone masonry; wood and vinyl sidings; exterior insulation finish systems; portland cement plaster stucco; commercial and residential roofing; window assemblies; and curtain wall systems.

Product Development + Testing

- Developed new wall, floor, ceiling and roof products and building systems.
- Evaluated and tested building products for compliance to applicable requirements per codes and standards.
- Analyzed and evaluated company and competitor patents and intellectual property.



Carlton Olson

PRINCIPAL + GROUP MANAGER (CTLGROUP USA)

Mr. Olson's expertise focuses primarily on the evaluation and condition assessment of various reinforced concrete structures, which include conventionally reinforced and prestressed concrete structures including foundations, dams, stadiums, parking structures, building facades, bridges, industrial structures, liquid containing structures, cooling towers, and several historic structures. His evaluations utilize specialized nondestructive testing techniques such as impulse radar, impulse response, impact-echo, optical fiberscope, and ultrasonic testing. At CTLGroup, Mr. Olson has supervised and performed numerous field and laboratory forensic investigations of materials performance issues. His contract reports include definitive findings regarding causes of damage and deterioration, materials testing, analysis and development of repair procedures, specifications, and drawings.

Industry Experience

32 Years with CTLGroup
37 Years Industry Experience

Credentials

M.S. in Civil Engineering
University of Illinois, Urbana,
1981

B.S. in Civil Engineering
University of Illinois, Urbana,
1980

Affiliations

American Concrete Institute
International Concrete Repair
Institute

Contact Information

(847) 972-3244
COLson@CTLGroup.com

Relevant Project Experience

Petrochemical Facilities

- Das Island, Abu Dhabi: Field evaluation of corrosion-induced deterioration on reinforced concrete foundations supporting LNG process equipment.
- Coke Drum Support Structure, Norco, LA: Evaluation of concrete repairs for refinery coke drum support structure.

Evaluation/Condition Assessment

- DOE Rocky Flats Buildings 776/777 and 707, Golden, CO: Nuclear weapon processing buildings; assessment and durability evaluation of concrete slabs.
- NASA Michoud Assembly Building, New Orleans, LA: 34-acre roof: condition assessment of spalling channel slab roof panels.
- Goldstone Antenna, Goldstone, CA: Evaluation of deep space antenna pedestal exhibiting cracking and ASR distress.
- Rocky Flats Environmental Site, Golden, CO: Building 766/777 Condition Assessment.

Historic Structures

- Chicago Pumping Station Roof, Chicago, IL: Assessment of cinder concrete cast on wrought iron corrugated deck including replacement mix recommendations.
- Lincoln Memorial, Washington D.C.: Condition assessment and durability potential of reinforced concrete approach slabs.
- Putnam and Carroll County, IN: Evaluation and assessment of three historic reinforced concrete arched bridges.

Nondestructive Testing

- Indian Point, IL; Peekskill, NY: Nondestructive Radar Testing.
- Browns Ferry Unit 3, Athens, AL: Nondestructive Radar Testing.
- Crystal River Unit 3, Crystal River, FL: Nondestructive evaluation of Containment Building.
- Davis-Besse Nuclear Plant, Oak Harbor, OH: Nondestructive evaluation of Shield Building.



Jose Pacheco, Ph.D.

SENIOR CONSULTANT + GROUP DIRECTOR (CTLGROUP USA)

Dr. Pacheco has expertise in the development of high performance and conventional concrete mixtures for construction, troubleshooting and assessment of concrete durability issues, and service life of concrete structures. He is an expert in metallic corrosion, corrosion of steel reinforcement in concrete, and concrete degradation mechanisms. His other areas of technical work include characterization of cementitious materials, moisture and ionic transport properties of concrete, and field assessment of concrete structures and repairs. Dr. Pacheco specializes in providing solutions for asset owners and contractors on several issues, selection and evaluation of construction materials, durability performance of existing concrete and steel structures, and the selection of repair and mitigation techniques for extending service life.

Industry Experience

3 Years with CTLGroup
12 Years Industry Experience

Credentials

Ph.D. in Civil Engineering
Delft University of Technology,
The Netherlands, 2015

M.S. in Civil Engineering
Delft University of Technology,
The Netherlands, 2010

B.S.E. in Civil Engineering
Universidad Autónoma de Nuevo
León, Mexico, 2008

Licensure/Certification

Civil Engineer
Mexico

Affiliations

American Concrete Institute

National Association of Corrosion
Engineers

International Concrete Repair
Institute (ICRI)

RILEM

Contact Information

(847) 972-3162
JPacheco@CTLGroup.com

Relevant Project Experience

Concrete Mixture Development

- Development and evaluation of concrete mixtures for specialized performance such as low-temperature rise, high-early strength, enhanced workability and slump retention, and minimizing cracking potential.
- Development and evaluation of high-performance concrete mixtures for aggressive environmental conditions, i.e. chloride ion penetration resistance, electrical resistivity, sulfate resistance, etc.
- Internal curing of concrete mixtures for pavement and bridge deck elements

Concrete Durability and Corrosion Protection Plans

- Review of existing or development of concrete durability and corrosion protection plans with emphasis on constructability for concrete infrastructure.
- Assessment of the potential development and/or existing degradation mechanisms affecting concrete structures, i.e. carbonation, reinforcement corrosion, sulfate attack, microbially induced corrosion, etc.

Design and Remaining Service Life

- Developed modeling for service life predictions of concrete elements exposed to aggressive environmental conditions with deterministic and probabilistic models.
- Use of service life modeling for management of reinforced concrete and steel assets for optimization of repair and maintenance costs
- Utilized service life modeling for justifying performance of in-place elements for disputes, change of use, or repair.

Offshore and Marine Structures

- Measurement and modeling of atmospheric corrosion on metallic structures in accordance with ASTM and ISO methods.
- Materials consulting for construction, repair and rehabilitation of marine exposed concrete structures.

Material Consulting on Concrete Repair

- Surveyed the condition of existing and new cathodic protection systems on concrete structures in Europe
- Development of concrete mixtures for concrete repair, i.e. low volume change, compatibility between substrate and repair material, considerations for performance of areas adjacent to repairs.



Ethan Dodge, P.E.

SENIOR ENGINEER (CTLGROUP USA)

During his time at CTLGroup, Mr. Dodge has developed his skills in nondestructive testing (NDT) through extensive field experience and development of test methods for commercial application, as well as performing structural evaluations and failure investigations for a wide range of projects. Mr. Dodge has applied his NDT specialty on various kinds of structures, including commercial and residential buildings, bridges, pavement, tunnels, water treatment facilities and refinery structures. In addition to more than 20 conventional methods, he is experienced in signal processing and data interpretation in high-frequency Impulse Radar (GPR), Corrosion Rate Testing, Infrared Thermography and stress-wave-related techniques such as Ultrasonic Shearwave Tomography (UST), Impact-Echo (I-E), Impulse Response (IR), Pulse Echo, and full-scale load testing on elevated slabs and beams.

Industry Experience

16 Years with CTLGroup
20 Years Industry Experience

Credentials

M.S. in Structural /Materials
Engineering
University of New Hampshire,
1999

B.S. in Civil Engineering
University of New Hampshire,
1996

Licensure/Certification

Professional Engineer
IL, NH

Affiliations

American Concrete Institute

Contact Information

(630) 327-7558
EDodge@CTLGroup.com

Relevant Project Experience

Concrete Repair Design

- Newton, MA: Evaluation and repair of a parking garage affected by corrosion, design deficiencies and neglect
- Waterhouse, Lathrop, CA: Investigation of slab thickness, reinforcement placement and repair quality
- Bridge, Annapolis, MD: Evaluation of overlay bond, surface preparation, as-built construction and subsurface deterioration

Structural Evaluation

- Bradenton, FL: Cortez Bridge nondestructive testing, material sampling and repair program
- Aqueduct, MA: Condition evaluation, special inspection, materials testing and repair protocols for concrete pipe
- Bridge, HI: Materials evaluation of systemic deterioration in precast concrete piles
- Digester Dome, Greer, SC: Condition evaluation, repair design and validation of subsurface repairs using destructive and nondestructive techniques

Nondestructive Testing

- Slip formed structures, TX + NC: Nondestructive evaluation of construction, definition of repair areas and verification of repair quality
- Garage Collapse, Atlantic City, NJ: Nondestructive evaluation of construction, litigation and repair support
- Viaduct, Cranston, RI: Nondestructive evaluation and documentation of post-tensioned tendons
- Convention Center, Boston, MA: Nondestructive evaluation, documentation and repair of drainage for covered structural slabs
- Interstate Bridge, Ft. Lauderdale, FL: Nondestructive evaluation and documentation of post-tensioned tendons conditions in bridge decks.
- Davis-Besse Nuclear Power Station, Oak Harbor, OH: Nondestructive testing of shield building wall. Primary reviewer of impulse response, ground penetrating radar, and borescope inspection.



Copy Of Valid
Certificates



وزارة التجارة والصناعة
Ministry of Commerce and Industry



Registration and Commercial
Licenses Department

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

تاريخ الطباعة: 2022/09/20



رقم السجل التجاري:	69008	رقم التسجيل الضريبي:	5000469239
الاسم التجاري:	كونستركشن تكنولوجي لابروتوريز جروب	السمعة التجارية:	
تاريخ انشاء السجل:	05/11/2014	تاريخ انتهاء السجل:	03/11/2023
الشكل القانوني:	شركة ذات مسئولية محدودة	راس المال:	200000
حالة السجل:	نشط	جنسية المنشأة:	قطر
عدد الفروع:	0		

معلومات الاتصال

صندوق البريد:	11809	أرقام الاتصال:	+97455530020
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الشركاء

الاسم	رقم الإثبات	رقم السجل	الجنسية	النسبة	الحالة
محمد خالد المرزوقي	29863405265		قطر	51	نشط
ريمه بنت طارق بن رشدي الصفدي	R774711		السعودية	49	نشط

المدرء (المخولون بالتوقيع)

الاسم	رقم الإثبات	رقم السجل	الجنسية	الصفة (الصلاحية)
محمود مازن محمود الشبول	28840001027		الأردن	صلاحيات كاملة ومطلقة - مدير

Page 1 of 2

رقم السجل : 69008



غرفة قطر
QATAR CHAMBER

تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



وزارة التجارة والصناعة
Ministry of Commerce and Industry



Registration and Commercial
Licenses Department

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

صلاحيات كاملة ومطلقة - مدير	مصر		27481807181	خالد زكريا صالح
صلاحيات كاملة ومطلقة - مدير	قطر		29863405265	محمد خالد المرزوقي
صلاحيات كاملة ومطلقة - مدير	لبنان		28342200171	شادي يوسف سعيد

الأنشطة التجارية

إسم النشاط	الرقم
اختبار و قياس المؤشرات البيئية	7120400
مختبرات البيئة و القياسات الاشعاعية	7120017
مختبرات علمية	2001746

إسم النشاط	الرقم
اعمال فحص واختيار مواد البناء	7120005
مختبر تحليل المياه	7120002
التجارة فى الآلات والمعدات المهنية والعلمية	4773012



Page 2 of 2
رقم السجل : 69008



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered

2022/12/12
No 1 of 1

تاريخ الطباعة:
صفحة رقم:



Registration and Commercial
Licenses Department

وزارة التجارة والصناعة
Ministry of Commerce and Industry

إدارة التسجيل
والتراخيص التجارية

رخصة تجارية



رقم الرخصة: 104641
الاسم التجاري: كونستركشن تكنولوجي لايفوتوريز جروب
نوع المنشأة التجارية: شركة
السمة التجارية:
تاريخ اصدار الرخصة: 2015/02/19
تاريخ انتهاء الرخصة: 2024/01/06
رقم السجل التجاري: 69008

بيانات المدير المسؤول :

اسم المدير المسؤول: شادي يوسف سعيد
رقم الإثبات: 28342200171

جنسية المدير المسؤول: لبنان

نموذج ختم المنشأة التجارية :

بيانات الموقع :

تصنيف الموقع: تجاري
نوع الموقع: مختبر
المنطقة: 57 المنطقة الصناعية
الشارع: الكسارات
رقم الشارع: 125
عقار رقم: 263
رقم الدور/ الوحدة:
اسم مالك العقار: الدولة
نوع الرخصة:
وصف العنوان: بلدية الدوحة / المنطقة الصناعية

الأنشطة التجارية :

رقم النشاط	اسم النشاط	رقم النشاط	اسم النشاط
7120005	اعمال فحص واختبار مواد البناء	7120002	مختبر تحليل المياه
7120017	مختبرات البيئة و القياسات الاشعاعية	2001746	مختبرات علمية



QATAR CHAMBER OF COMMERCE & INDUSTRY
Tel : 4455 9111 | Fax: 4466 1693 - 4466 1697
P. O. Box : 402 | Doha - Qatar
E-mail: info@qcci.org | www.qatarchamber.com



غرفة قطر
QATAR CHAMBER

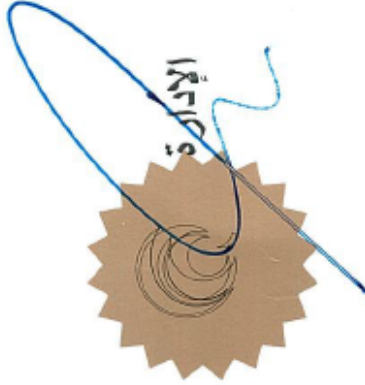
غرفة تجارة وصناعة قطر
هاتف : ٤٤٥٥ ٩١١١ فاكس : ٤٤٦٦ ١٦٩٧ - ٤٤٦٦ ١٦٩٣
ص.ب : ٤٠٢ ، الدوحة ، قطر
www.qatarchamber.com | info@qcci.org
بريد إلكتروني:

شهادة عضوية MEMBERSHIP CERTIFICATE

عام : 2022

تشهد غرفة تجارة وصناعة قطر

بأن السادة كونستركشن تكنولوجي لابروتوريز جروب
عضو منتسب لدى الغرفة برقم عضوية 02/05803 ولديهم عدد (0) فرعاً



التاريخ: 2022/09/28
الرجاء النظر خلف الشهادة

ملاحظة : هذه الشهادة سارية المفعول حتى 2023/11/03

أى كشط أو تعديل بهذه الشهادة تعتبر لا غية



06/09/2020

ضريبة
Dhareeba
tax portal



بطاقة ضريبة - 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

5000469239

رقم التعريف الضريبي

Taxpayer Name:

كونستركشن تكنولوجي لابورتوريز جروب

إسم المكلّف:

CONSTRUCTION TECHNOLOGY LABORATORIES
GROU

Commercial
Registration Number

69008

رقم السجل التجاري القطري

Address

Zone: 57 منطقة Building: المبنى:

العنوان

[Headquarter]:

Street: 41 شارع:

(المركز الرئيسي):

Qatar - قطر

Main Activity:

2001746 - مختبرات علمية

النشاط الرئيسي:

2001746-Scientific laboratories

Legal Form:

شركة ذات مسؤولية محدودة

الشكل القانوني:

Limited Liability Company

Activity Commencement
Date:

05/11/2014

تاريخ بدء النشاط:

Number of Branches:

0

عدد الفروع:

Registered taxes :

الضرائب المسجلة :

Income Tax

REGISTERED - 05/11/2014 - مسجل

الضريبة على الدخل

الهيئة العامة للضرائب
GENERAL TAX AUTHORITY



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

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



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

Quality Austria
has issued an IQNet recognized certificate that the organization:

Construction Technology Laboratories Group WLL
Al Kassarat Road, Street 41, Industrial Area, Doha,
Qatar, PO Box 12422

for the following scope:

Laboratory testing, consulting engineering & scientific analysis

EAC: 28

has implemented and maintains a

QUALITY MANAGEMENT SYSTEM

which fulfils the requirements of the following standard


ISO 9001:2015

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Issued on:	2021-06-08
Validity date:	2024-05-10
Quality Austria certified since:	2015-05-11

Registration Number: AT-16336/0




Alex Stoichitoiu
President of IQNet


Mag. Friedrich Khuen-Belasi
Authorised Representative
of Quality Austria



qualityaustria
Succeed with Quality

IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE Mexico PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



qualityaustria

Succeed with Quality

CERTIFICATE

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH awards this **qualityaustria** certificate to the following organisation:

Construction Technology Laboratories Group WLL

Al Kassarat Road, Street 41, Industrial Area,
Doha, Qatar, PO Box 12422

Laboratory testing, consulting engineering &
scientific analysis

The validity of the **qualityaustria** certificate will be
maintained by annual surveillance audits and one
renewal audit after three years.

This **qualityaustria** certificate confirms the application
and further development of an effective

QUALITY MANAGEMENT SYSTEM

complying with the requirements of standard

ISO 9001:2015

Registration No.: 16336/0

Date of initial issue: 11 May 2015

Valid until: 10 May 2024

Vienna, 08 June 2021

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Konrad Scheiber
General Manager

Dr. Mag. Anni Koubek
Specialist representative

Quality Austria - Trainings,
Zertifizierungs und
Begutachtungs GmbH is
accredited according to
the Austrian Accreditation
Act by the BMVFW
(Federal Ministry of
Science, Research and
Economy)

Quality Austria is
accredited as an
organisation for
environmental verification
by the BMLFUW (Federal
Ministry of Agriculture,
Forestry, Environment and
Water Management)

Quality Austria is
authorized by the VDA
(Association of the
Automotive Industry)

For accreditation
registration details please
refer to the applicable
decisions or recognition
documents

Quality Austria is the
Austrian member of IQNet
(International Certification
Network)

Dok. Nr. FO_24_028

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98f2-27f90d784a7

The current validity of the certificate is documented exclusively on the Internet under
<http://www.qualityaustria.com/en/cert> EAC: 28



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

Quality Austria

has issued an IQNet recognized certificate that the organization:

Construction Technology Laboratories Group WLL
Al Kassarat Road, Street 41, Industrial Area, Doha,
Qatar, PO Box 12422

for the following scope:

Laboratory testing, consulting engineering & scientific analysis

EAC: 28

has implemented and maintains an

ENVIRONMENTAL MANAGEMENT SYSTEM

which fulfils the requirements of the following standard

ISO 14001:2015

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document


Issued on: 2021-06-08

Validity date: 2024-07-13

Quality Austria certified since: 2015-07-14

Registration Number: AT-02878/0




Alex Stoichitoiu
President of IQNet


Mag. Friedrich Khuen-Belasi
Authorised Representative
of Quality Austria



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qualityaustria

Succeed with Quality

CERTIFICATE

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH awards this **qualityaustria** certificate to the following organisation:

Construction Technology Laboratories Group WLL

Al Kassarat Road, Street 41, Industrial Area,
Doha, Qatar, PO Box 12422

Laboratory testing, consulting engineering &
scientific analysis

The validity of the **qualityaustria** certificate will be maintained by annual surveillance audits and one renewal audit after three years.

This **qualityaustria** certificate confirms the application and further development of an effective

ENVIRONMENTAL MANAGEMENT SYSTEM

complying with the requirements of standard
ISO 14001:2015

Registration No.: 02878/0

Date of initial issue: 14 July 2015

Valid until: 13 July 2024

Vienna, 08 June 2021

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH,
AT-1010 Vienna, Zelinkagasse 10/3

Konrad Scheiber
General Manager

DI Axel Dick, MSc
Specialist representative

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH is accredited according to the Austrian Accreditation Act by the BMWFV (Federal Ministry of Science, Research and Economy).

Quality Austria is accredited as an organisation for environmental verification by the BMLFUW (Federal Ministry of Agriculture, Forestry, Environment and Water Management).

Quality Austria is authorized by the VDA (Association of the Automotive Industry).

For accreditation registration details please refer to the applicable decisions or recognition documents.

Quality Austria is the Austrian member of IQNet (International Certification Network).

Dok. Nr. FQ_24_028

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The current validity of the certificate is documented exclusively on the Internet under <http://www.qualityaustria.com/en/cert> EAC: 28



qualityaustria





THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

Quality Austria

has issued an IQNet recognized certificate that the organization:

Construction Technology Laboratories Group WLL
Al Kassarat Road, Street 41, Industrial Area, Doha,
Qatar, PO Box 12422

for the following scope:

Laboratory testing, consulting engineering & scientific analysis

EAC: 28

has implemented and maintains an

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS

which fulfils the requirements of the following standard

ISO 45001:2018

Issued on: 2021-06-08

Validity date: 2024-06-07

Quality Austria certified since: 2021-06-08

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: AT-01264/0



Alex Stoichitoiu
President of IQNet

Mag. Friedrich Khuen-Belasi
Authorised Representative
of Quality Austria



qualityaustria
Succeed with Quality

IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

CERTIFICATE

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH awards this **qualityaustria** certificate to the following organisation:

**Construction Technology
Laboratories Group WLL**

Al Kassarat Road, Street 41, Industrial Area,
Doha, Qatar, PO Box 12422

Laboratory testing, consulting engineering &
scientific analysis

The validity of the **qualityaustria** certificate will be
maintained by annual surveillance audits and one
renewal audit after three years.

This **qualityaustria** certificate confirms the application
and further development of an effective

**OCCUPATIONAL HEALTH AND SAFETY
MANAGEMENT SYSTEMS**

complying with the requirements of standard
ISO 45001:2018

Registration No.: 01264/0

Date of initial issue: 08 June 2021

Valid until: 07 June 2024

Vienna, 08 June 2021

Quality Austria - Trainings, Zertifizierungs und Begutachtungs GmbH,
AT-1010 Vienna, Zelinkagasse 10/3



Konrad Scheiber
General Manager



Eckehard Bauer, MSc
Specialist representative

Quality Austria - Trainings,
Zertifizierungs und
Begutachtungs GmbH is
accredited according to
the Austrian Accreditation
Act by the BMWFV
(Federal Ministry of
Science, Research and
Economy)

Quality Austria is
accredited as an
organisation for
environmental verification
by the BMLFUW (Federal
Ministry of Agriculture,
Forestry, Environment and
Water Management)

Quality Austria is
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(Association of the
Automotive Industry)

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(International Certification
Network)

Dok. Nr. FO_24_028
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8010-57e3d9312d5e

The current validity of the certificate is documented exclusively on the Internet under
<http://www.qualityaustria.com/en/cert> EAC: 28





Previous & Current Projects

Liquefied Natural Gas (LNG) Tanks

AL ZOUR KUWAIT

Kuwait Integrated Petroleum Industries Company (KIPIC) is in the process of constructing and operating a Liquefied Natural Gas (LNG) Import facility at Al-Zour offshore area in the State of Kuwait. KIPIC is a subsidiary of KPC set up by the State of Kuwait to manage refinery, petrochemicals and LNG import operations in the Al-Zour area. The project works were commenced in May 2016 and are expected to be completed on February 2021.

In the early months of year 2018, CTL Group Qatar was hired to perform a Non-Destructive Test by using the Impulse Response method in the base slab of the tanks to look for a suspected voids underneath the concrete.

By using a state of the art equipment and advanced computer software, CTL Group Qatar can pin-point the exact locations of the voids in random areas of all the inspected tanks. CTL Group Qatar also provided the client a contour map in each inspected tanks to make it easier to determine the locations of voids.

Client

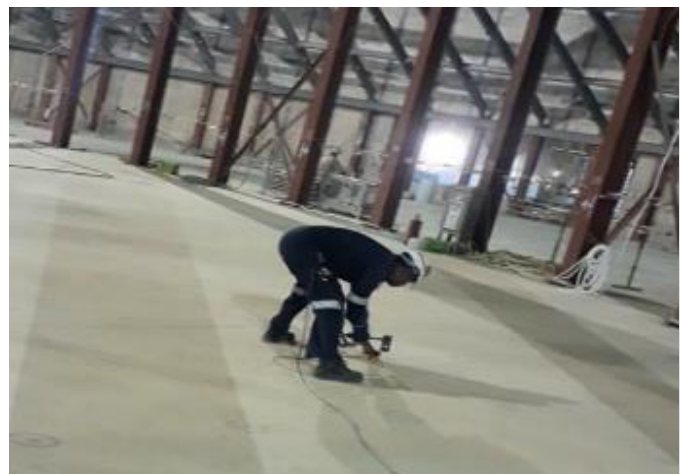
Hyundai Engineering and Construction Company

Services

Non Destructive Testing by Impulse Response method for LNG tanks base slab.

Project Team

Ethan Dodge
Nemer Al Hamra
Mahmoud Shboul
Prinson Galicinao



Concrete Plinths Marina Bridge

LUSAIL, DOHA QATAR

Bridge CP04B is located at Lusail city, Qatar, Road A1, A6 Southern and Marina interchange and it has 424.5 meters span pre-stressed box section structure supported by 2 abutment walls + 6 pair of piers, on 27th December 2017 client noticed that PTFE damage at the two bearings on Pier No. 5. The bridge is under construction since 3 years ago and it's in final stage.

CTL Group Qatar has been contracted by M/s. Midmac Yuksel JV to perform Non-Destructive Testing + evaluation for the bridge Marina Pier 5 – CP04B. The main objective of study was to perform Non-Destructive Testing for top plinths at Bearing #1 + Bearing #3 and evaluate overall concrete quality found within these concrete plinths.

Accordingly, CTL Group Qatar intends to provide a summary of all the works performed, findings, analysis, and conclusion concerning the concrete plinths quality. It also includes a list recommended actions that have to be implemented to reinstate the structural integrity.

Client

MIDMAC – Yuksel JV

Services

Non Destructive Testing by Ground Penetrating Radar (GPR), Ultrasonic Pulse Velocity (UPV), Impulse Response and Impact Echo.

Project Team

Mahmoud Shboul
Prinson Galicinao
Saiju Simon



Mowasalat Bus Showroom

AIN KHALID, DOHA QATAR

The Site is located inside MOWASALAT Bus Showroom (Ain Khalid). Total build-up area of showroom around 45,000 squaremeter includes basement, ground floor and roof. Total parking slot 246 number of buses.(basement 104 buses , ground floor 58 buses and in roof 84 buses) can park.

In the early months of year 2018, CTL Group Qatar was hired to perform a Load Test by using the Structural Testing System and LVDT Displacement Transducer on the Precast Beam and HC Slab look for assessing the structural condition/integrity of the above elements and their ability to carry safely the suggested imposed load.

By using STS4 structural scanning system and advanced computer software, CTL Group Qatar conclusion that there are some area with durability concern and there was no immediate concern for structural failure. CTL Group Qatar Recommended location should be repaired to ensure the current strength will remains for the structure's service life.

Client

Smeet Precast W.L.L.

Services

Load Testing for Beam and Slab

Project Team

Nemer Al Hamra
Mahmoud Shboul
Fadhil Ahamed



Naval Base in New Port Project

AL WAKRA QATAR

Naval Base is located at Mesaieed Road, New Doha Port Interchange. It has a total of 716 capping blocks with a 4296m in length and a total area of 25779m². The project is already completed and it is in maintenance (warranty) stage. In 2016, Both consultant and CHEC noticed many cracks in many different capping blocks and a repairing contractor was carried out the repair of cracks by epoxy injection method.

By the year 2017, China Harbour Engineering Company hired CTL Group Qatar to investigate the repaired shrinkage cracks. The aim of the NDT inspection is to identify the repaired cracks (epoxy injection) carried out by the sub-contractor if it's fully injected or not by using Ultrasonic Pulse Velocity (UPV-indirect method) for the injected cracks to determine if the epoxy injection has been totally closed and reach the total depth of the cracks.

Client

China Harbour Engineering Company

Services

Non Destructive Testing by
Ultrasonic Pulse Velocity (UPV)

Project Team

Mahmoud Shboul
Prinson Galicinao



Pedestrian Bridge at Qatar University

DOHA, QATAR

The pedestrian bridge is located inside of the Qatar University Campus. It was built in 1982 and has a dimension of (Length 47.00 meters, Width 7.69 meters and Height 3.69 meters). They've noticed defects in some parts of the bridge and wants to evaluate the condition of the existing bridge and to provide recommendations for repairing. At the time of the inspection, there are no previous documents about the bridge received from the client. CTLGroup Qatar scope of work was to evaluate the bridge and conducted the investigation based on a sampling + testing plan that was proposed and agreed with the client. NDT inspection was carried out by the methods of GPR scanning, Ultrasonic Pulse Velocity, Impulse Response and Half Cell Corrosion Potential. In the other hand, the material testing was carried out by the methods of Compressive strength, Rapid Chloride Penetration, Water Absorption, Water Soluble Chloride Content, Water Soluble Sulfate, Depth of Carbonation and pH value. CTLGroup Qatar was able to finish the project in 2 weeks.

Client

Jascon Engineering

Services

Non Destructive Testing and Condition Assessment

Project Team

Mahmoud Shboul
Prinson Galicinao



Qatar Internal Security Force (ISF) Camp Project

DOHA, QATAR

The Internal Security Force of Qatar (ISF) is building a camp at on the outskirts of Doha. This camp, located in Dhulia area, will cover an impressive four million square meters in total. The ISF project features more than 330 individual building units made up of several different types of purpose-built facilities.

The camp is planned to have an ultimate resident population of more than 17,000 and it is expected overall completion date is in 2025. Besides residential buildings, the area will include post office, unit force offices, unit guardhouses, check points, a five-star hotel and a 10 000 spectator stadium. The project works were commenced in 2013 and are expected to be completed on February 2025.

In the early months of year 2018, CTL Group Qatar was hired to perform a Fresh concrete Sampling and Testing.

Client

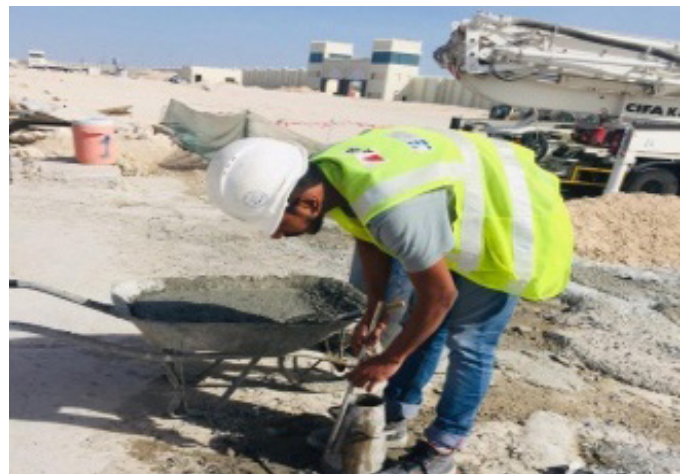
Aktor - Al Jaber Engineering (JEC) J.V.

Services

Concrete Sampling
Slump Testing
Hardened Concrete Testing

Project Team

Mahmoud Al Shboul
Saiju Simon



Al-Udeid Air Base Project

DOHA, QATAR

Qatar's Ministry of Defense broke ground on new barracks for US and Coalition airmen stationed at Al Udeid Air Base (AUAB), part of a multi-billion dollar expansion project for the base, located in Qatar. Qatar and the United States have long been strategic partners, as evidenced by Qatar's continued contributions to regional security and counterterrorism efforts through Al Udeid Air Base, which currently hosts approximately 10,000 US and Coalition members

The project works were commenced in 2017 and are expected to be completed in 2020.

In the early months of year 2018, CTL Group Qatar was hired to perform Site lab. Fresh concrete Sampling and Testing, harden concrete testing Soil Testing, Field Density test, plate load, asphalt.

Client

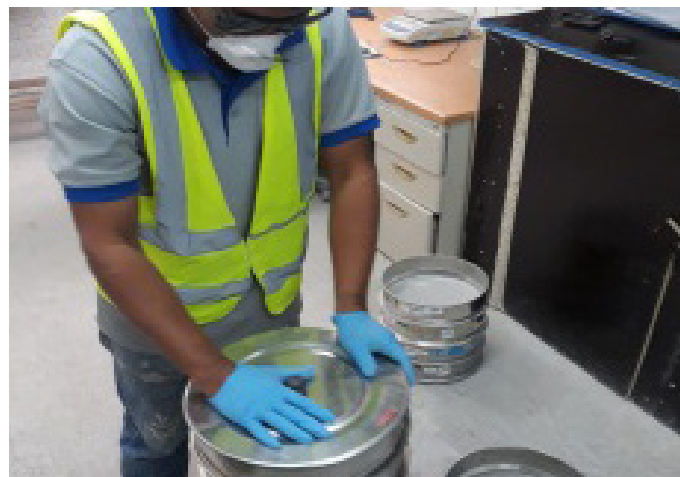
Al Seal Contracting & Trading Co.

Services

Fresh Concrete Sampling & Testing
Harden concrete Testing
Soil Testing
Asphalt Testing
Field Density Test

Project Team

Mahmoud Al Shboul
Saiju Simon



Material Testing & Analysis of Ready-Mix Companies

DOHA, QATAR

Ready-mix Companies as refers to concrete that is specifically batched or manufactured for customer's construction projects.

CTLGroup Qatar provides a wide range of testing services for fresh concrete, cementitious materials, aggregates in several Ready-mix around Qatar.

CTLGroup Qatar hired qualified ACI Certified technician to provide best testing service to our clients. Especially Ready-mix companies.

Clients

Gulf Ready-Mix
Ready-Mix Qatar
Al Wataniya Concrete
Barzan Ready-Mix
Sabea Ready-Mix

Services

Material Evaluation of Aggregate, Cement, Construction water, Concrete Specimen Testing

Project Team

Nemer Al Hamra
Mahmoud Shboul
Chandra kanta Chhatkuli



Condition Assessment & Repair Recommendation For Women's Sports Facility

DOHA, QATAR

The women's sports facility_1 (D03 building) was built approximately 40 years ago. The building consists of three squash rooms, main hall, Gymnasium room, lobby, eight store rooms, clinic, electrical and maintenance rooms, kitchen and toilet facilities.

In the middle of year 2018, CTL Group Qatar was hired to perform a Non-Destructive Test by using the GPR scanning, Ultrasonic Pulse Velocity, Impulse Response and Half Cell Corrosion Potential method in the top slab (10m x 6.4m) of the Squash room to evaluate the condition of slab and to provide recommendations for repairing.

By using a state of the art equipment and advanced computer software, CTL Group Qatar is noted that the concrete surface hardness is not homogenous due to corrosion in reinforcement. CTL Group Qatar Recommended location should be repaired to ensure the current strength will remains for the structure's service life.

Client

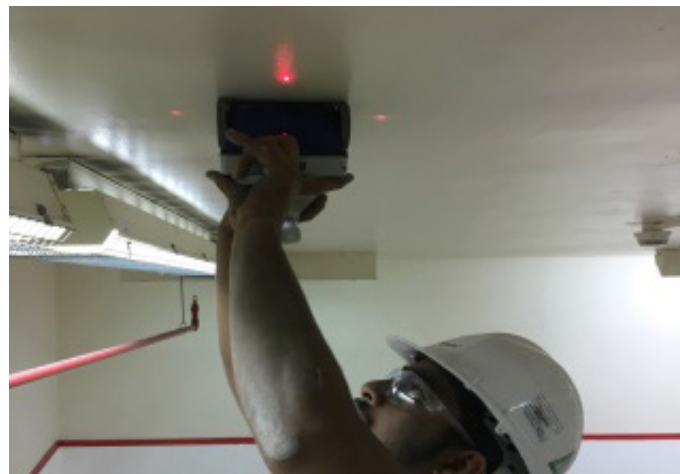
Qatar University

Services

Non Destructive Testing
Condition Assessment

Project Team

Mahmoud Al Shboul
Nemer El Hamra
Fadhil Ahamed



Burj Khalifa Consulting

DUBAI, UAE

In January 2010, Dubai announced the opening of the world's tallest building. The Burj Khalifa (formerly the "Burj Dubai"), a concrete skyscraper wrapped in glass and metal, stands above the clouds at a staggering 2,717 feet. CTLGroup played a pivotal role in the development of this record-breaking structure.

CTLGroup's expert consultants and industry-leading testing services addressed a major issue facing any concrete-based construction effort: how to account for creep and shrinkage. Using its world-class laboratory, CTLGroup conducted the creep and shrinkage testing critical for the structural analysis of the building. Additionally, much of the technology used to design and analyze the high-strength concrete necessary for the project came from the extensive work CTLGroup did for other tall buildings.

Because of its international reputation for accuracy and notable contributions to other world-famous buildings, CTLGroup was considered the "go-to" firm for concrete materials technology for the project.

According to Bill Baker of Skidmore Owings + Merrill LLP, "CTLGroup was a great resource and made a major contribution to the success of Burj Khalifa."

Client

Skidmore Owings + Merrill

Services

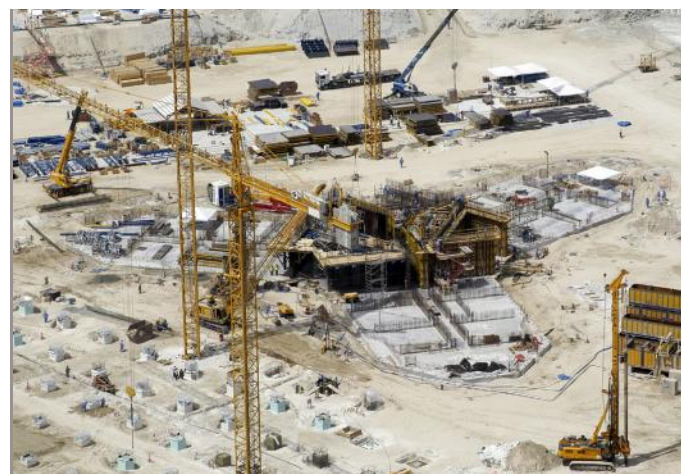
Creep and Shrinkage Consulting
Mix Design Consulting
Construction Process Review

Reference

Ahmad Abdelrazaq
Samsung Corp./Engineering + Construction
222-145-5190
ahmad.abdelrazaq1@samsung.com

Completion Date

June 2005



Wilshire Grand Center

LOS ANGELES, CALIFORNIA

In 2014, the Wilshire Grand Tower was the site of the world's largest continuous concrete pour. CTLGroup played a vital role in the oversight and engineering of the "Grand Pour," which was certified as a record by the Guinness Book of World Records.

The Wilshire Grand Tower's foundation pour consisted of a total of 21,200 cubic yards of concrete over 18.5 hours using 19 separate pumps feeding 13 hoses to fill the site with roughly 82 million pounds of concrete.

CTLGroup engineered a cooling pipe system that internally cooled the foundation to ensure that it was below 160°F during curing and kept the temperature difference below a limit that was specifically engineered for the placement.

CTLGroup's cooling pipe system reduced the temperature in the foundation to near-ambient conditions within 10 days and was carefully engineered to avoid precooling of the concrete. The cooling process would have taken up to 100 days if the cooling pipes were not used.

Client

Turner Construction Company

Services

Mass Concrete Consulting
Thermal Control Plan
On-site + Pour Consulting
Cooling Pipe System

Project Team

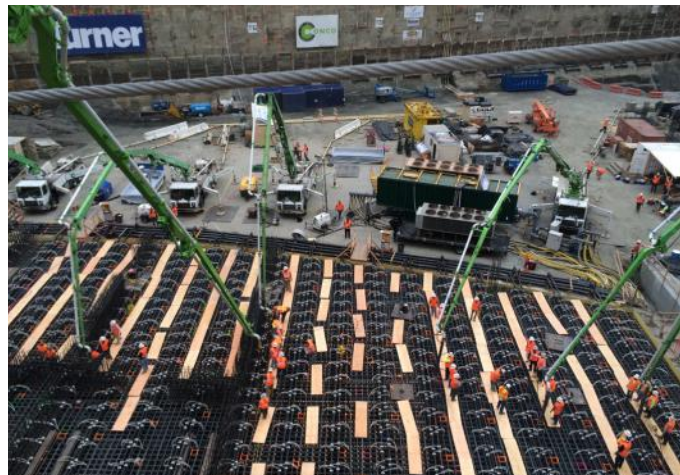
Jonathan Feld | Project Engineer

Reference

Dave Bushnell
Turner Construction Company
312-447-6950
dbushnell@tcco.com

Completion Date

June 2015



Holy Haram Makkah

MECCA, SAUDI ARABIA

CTLGroup was retained by the Binladin Concrete Solutions Company (BCS) to review temperature data from a concrete placement at the construction site during the expansion of the Holy Haram Makkah. The subject concrete placement was part of the third expansion of the Holy Haram Makkah and surrounding areas.

CTLGroup's scope of work included a review of the recorded concrete temperatures, discussion of the temperature differentials, and the effects of the maximum temperatures recorded in the element. The measured temperature and temperature differences reportedly exceeded the limits provided in the project specifications. CTLGroup prepared an alternative, performance-based temperature difference limit for the project.

Client

Binladin Concrete Solutions Company

Services

Materials Consulting
Construction Methods Consulting
Construction Review Process

Reference

Confidential Reference

Completion Date

September 2011



Oakland Bay Bridge

CORDOVA, CALIFORNIA

CTLGroup assisted in the construction of the Oakland Bay Bridge by working on major mass concrete development for the foundation. The San Francisco-Oakland Bay Bridge's W2 foundation required specific and controlled procedures to avoid the overheating of the massive concrete placement.

CTLGroup installed a cooling system of more than 12,000 ft of the thermocouple wiring in the multiple pile, footing, and column placements to reduce cooling times and to speed up construction. There were 40 separate concrete placements over a 12-month period, each footing consisted of approximately 675 truckloads of concrete placed during a 36-hour period.

CTLGroup proposed and implemented a redundant system designed to insure quality, contiguous data, which was vital in the management of the construction site during the Bay Area's winter weather. Likewise, redundant sensors were installed to maintain integrity throughout the concrete placement and curing phase. Over the duration of the entire project, data was continuously logged and reported to the clients and the resident engineer to show that the temperatures and the temperature differences were not excessive.

Client

C.C. Myers, Inc.

Services

Temperature Monitoring
Mass Concrete Services

Project Team

David Drengenberg | Senior Engineer

Reference

George Delano
C.C. Meyers, Inc.
916-635-9370

Completion Date

May 2007



Gulf IntraCoastal Waterway

METAIRIE, LOUISIANA

Located on the west bank of the Mississippi River near New Orleans, LA in the Gulf Intracoastal Waterway, the WCC will function as a major component of the Greater New Orleans Hurricane Storm Damage Risk Reduction System (HSDRRS). CTLGroup was retained to blend state-of-the-art concrete technology with advanced construction practices so that concrete could be easily placed, and durability achieved with almost no impact on the desired speed of construction. Large mass concrete placements were routine on this project and one of them consisted of a 9-foot-thick slab where 5,700 cubic yards of concrete was placed in 18 hours. CTLGroup provided world-class troubleshooting expertise, phase after phase, to the contractor, ensuring the delivery of a better quality structure with high-class durability.

Client

Gulf IntraCoastal Constructors

Services

Concrete Mix Development
Thermal Modeling

Project Team

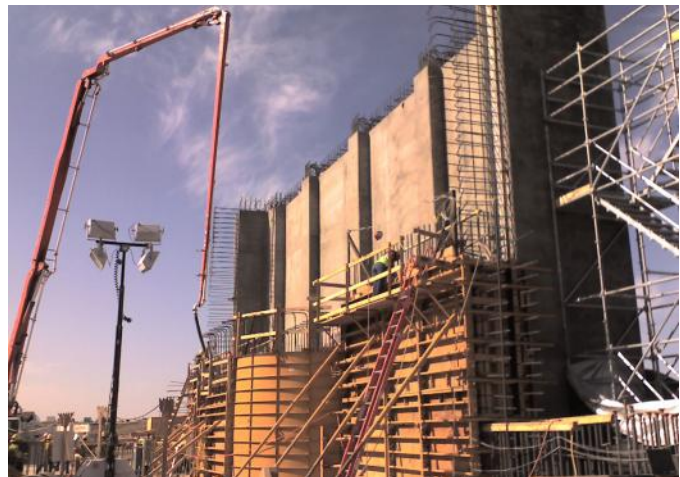
Jonathan Feld | Project Engineer
Peter Kolf | Principal Structural Engineer

Reference

Chris Krumwiede
Gulf IntraCoastal Constructors
224-374-5776

Completion Date

July 2011



Olmsted Dam

OHIO RIVER (BETWEEN KENTUCKY + ILLINOIS)

CTLGroup was contacted by Stantec Consulting Services, Inc. (Stantec) regarding a scope of work for laboratory investigation of Olmsted Dam tremie concrete during the replacement of locks and dam numbers 52 and 53 at the Olmsted Dam. The general scope was to evaluate the materials and properties of the Olmsted tremie concrete mixture to be placed in precast tainter gate bay shells and stilling basin shells. Prior to the construction of these shells, a test shell section was constructed to evaluate the performance of the tremie concrete mixture. During the placement of the test shell section, the tremie concrete mixture reportedly experienced early-age stiffening problems, and CTLGroup evaluated the concrete mixture to identify the cause and developed the correct concrete mixture that was needed for success.

Client

Stantec Consulting Services, Inc.

Services

Concrete Mix Development
Replacement Design

Project Team

Jonathan Feld | Project Engineer

Reference

Barry Bryant
Stantec Consulting Services, Inc.
barry.bryant@stantec.com
859-422-3000

Completion Date

September 2011



DC WASA Blue Plains Tunnel

WASHINGTON, DC

CTLGroup provided mass concrete engineering consulting services for the Blue Plains Screening and Dewatering Shafts DC Clean Rivers Project in Washington, DC. The DC Clean Rivers Project consisted of a network of tunnels designed as part of a plan to manage combined sewer overflows for the District of Columbia Water and Sewer Authority (DCWASA). The tunnels were designed to carry wastewater to the Blue Plains Advanced Water Treatment Plant. As part of the Blue Plains Project, large elements were to be constructed and the specifications required that the large elements be treated as mass concrete. The elements included base slabs ("dome slabs"), invert slabs, and walls.

Client

Traylor/Skanska/JayDee Joint Venture

Services

Mass Concrete Consulting
Thermal Control Plan

Project Team

Jonathan Feld | Project Engineer

Reference

Brett Zernich
Traylor/Skanska/JayDee Joint Venture
812-447-1542
BZernich@traylor.com

Completion Date

November 2013



Ohio River Crossing

UTICA, INDIANA + LOUISVILLE, KENTUCKY

CTLGroup provided engineering consulting services to the contractor for the tunnel concrete to verify compliance with the contract requirements. Our firm performed a critical review of the project specifications concrete mixture proportions for feasibility, thermal modeling, and mass concrete services.

A design approach review including pumpability, durability, and service life requirements was performed. Fire spalling resistance and extensive testing was carried out to characterize the concrete performance and support the consulting efforts, including fire, durability, and service life.

CTLGroup completed an explosive spalling fire exposure evaluation for large scale concrete panels which would be used in the tunnel liner. The new test method, based on similar European projects, was not within the capabilities of other North American fire laboratories. To meet the requirements, CTLGroup designed, built, and calibrated a fire testing furnace to assess the suitability of proposed tunnel lining concrete. Testing showed that explosive spalling of the concrete during a fire (before the deluge system extinguished the fire) would not jeopardize the safety of the fire respondents or the integrity of the structure.

Client

Walsh/Vinci Construction, JV

Services

Engineering Consulting Services
Concrete Mix Design Review
Service Life Evaluation

Project Team

Jonathan Feld | Senior Engineer
Benjamin Birch | Project Engineer
Jose Pacheco | Project Associate

Reference

Joe DeFiore
Project Manager
Walsh/Vinci Construction, JV
502-276-9182
jdefiore@wvb-eec.com

Completion Date

September 2016



James Jardine Water Purification Plant

CHICAGO, IL

CTLGroup performed a condition assessment of thousands of precast concrete channel slabs that comprised the roof over a large filtration building. Deterioration observed during the visual review included spalled flanges with exposed corroded reinforcement, longitudinal cracking in the flanges, web spalls, and excessive web cracking. Based on the assessment, CTLGroup ultimately determined that replacement of distressed channel slabs was the only practical repair solution.

The City of Chicago commissioned a comprehensive removal and replacement program for the roof of the filtration building. As part of the program, CTLGroup was retained to design a more durable channel slab, which included a high performance concrete mix and enhanced concrete cover over the reinforcing steel. CTLGroup also performed submittal reviews and quality assurance reviews at the precast concrete fabrication plant.

Client

HDR Engineering, Inc.

Services

Structural Evaluation
Structural Repair Design
Concrete Mix Development

Project Team

John Vincent | Project Manager + Principal Structural Engineer
Carlton Olson | Principal-In-Charge
Alexis Brackney | Project Structural Engineer

Reference

Barry Kravitz, PE, SE
Vice President
HDR Engineering, Inc.
773-380-7940
Barry.Kravitz@hdrinc.com

Completion Date

September 2015



Frank Lloyd Wright Unity Temple

OAK PARK, IL

Unity Temple was constructed in 1908-1909 and is a National Historic Landmark. CTLGroup's role in the restoration of Unity Temple was comprised of a comprehensive survey and evaluation of the concrete's condition and the development of an ongoing phased rehabilitation plan. CTLGroup evaluated the different types of concrete present in the structure, core samples were taken, studied, and the types of concrete were confirmed and characterized. CTLGroup designed cementitious materials that would be durable and visually match the original materials. It was mandatory that CTLGroup achieve the highest possible aesthetic standards, maintain strict historical accuracy, and protect the integrity of existing building features. Numerous field trial mock ups were performed to verify the material match.

A full condition survey and visual inspection was performed to assist in developing the scope of repairs. The results of the survey were used to develop repair documents and solicit pricing for the restoration work. CTLGroup performed construction observation services throughout the repair phase and designed structural repairs as unforeseen conditions arose. The restoration project was awarded the International Concrete Repair Institute (ICRI) 2017 Award of Excellence Historic Category.

CLIENT

Unity Temple Restoration Foundation

SERVICES

Historic Restoration
Nondestructive Testing
Concrete Mixture Development
Petrography

PROJECT TEAM

CP Bok | Project Manager + Principal Structural Engineer
Brian Frost | Senior Engineer
John Vincent | Principal Structural Engineer
Peter Kolf | Principal Structural Engineer
Patrick Bruce | Senior Technician

REFERENCE

Unity Temple Restoration Foundation
708-303-8873

COMPLETION DATE

April 2017



Middle East High-Rise

MIDDLE EAST

CTLGroup was retained to investigate cast-in-place concrete construction for a prominent high-rise in the Middle East. Our work included review of relevant project documents; a field investigation encompassing visual inspection, nondestructive testing, exploratory coring, observation of concrete placement activities; and laboratory testing of extracted samples. A discussion of our findings and recommendations were provided.

Client

Confidential Client

Services

Nondestructive Testing
Materials Consulting
Structural Evaluation

Project Team

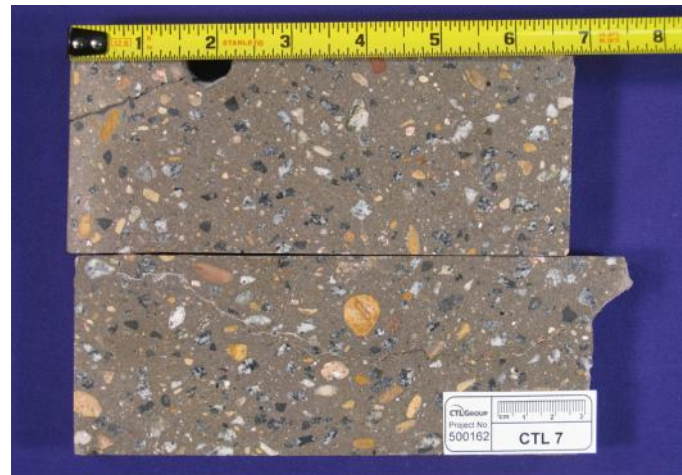
Ethan Dodge | Nondestructive Testing Engineer
Hamid Lotfi | Senior Engineer
Rich Kaczowski | Principal Structural Engineer
Peter Kolf | Principal Structural Engineer

Reference

Confidential Reference

Completion Date

September 2013



CTLGroup Qatar | List of Executed Projects

NON-DESTRUCTIVE TESTING & STRUCTURAL EVALUATION

#	Project Name	Client	Consultant	Contractor	Location	Date
1	Structural Assessment - Qatar International School	Diwan Architech	NA	NA	Qatar	2015
2	Condition Assessment for a Private Villa at Buraimi	Private	NA	NA	Oman	Aug-15
3	Building @ Industrial Area, Concrete Physical & NDT Test	Clean Plus	NA	NA	Industrial Area, Qatar	Mar-16
4	Private Villa, Concrete Physical & NDT Test	Tiles Contracting	NA	NA	Sayliya	Apr-16
5	Residential Building, Concrete Core Evaluation	GRM	NA	NA	Bin Omran	Apr-16
6	Site Survey, Visual Inspection, NDT & Repair Recommendations	Qatar Gas	-	QCTC	Ras Laffan, Qatar	Jan-17
7	Zublien @ Lusail, Pull of Test	Sodamco-Weber	NA	Jublin	Energy City	Mar-17
8	NDT & Material Testing for Central Market	MOME	-	-	Doha, Qatar	Jun-17
9	Material Sampling, NDT Testing & Evaluation for Al Waab Building - Part J	QCTC	NA	QCTC	Doha, Qatar	Jun-17
10	NDT testing Bahrain City Center	City Centre Bahrain	NA	QCTC	Manama, Bahrain	Jun-17
11	NDT & Material Evaluation for Some Structural Elements at Al Wakrah Stadium	QCTC	NA	MIDMAC-PORR	Wakra, Qatar	Jun-17
12	Residential building at Mansoura, Concrete Core Compressive Strength, Ultrasonic Pulse Velocity, Rebound Hammer Test, Concrete Core Extraction, Ground Penetrating Radar (GPR)	Private	Edarat Al-Khebra for Eng. Consultation	NA	Residential Building at Mansoura	Jun-17
13	Post Tension Scanning and locating on site, Ground Penetrating Radar, Concrete Core Extraction	DSI Middle East	NA	NA	QIB Al Namaa Hotel	Jul-17
14	Material Evaluation & Pull Off Test	Khalid Plastic	NA	NA	Qatar	Aug-17
15	NDT Testing, Extraction of Concrete Core for Compressive Strength Testing, Impulse Response, Impact Echo	Private		QCTC	Lusail	Aug-17
16	Post Tension Scanning and locating - Al Mazrooa Project	DSI Middle East	NA	DSI	Doha, Qatar	Sep-17
17	Post Tension Scanning and locating on site, NDT Testing with Impulse Response & Impulse Echo	DSI Middle East	NA	QCTC	Qatar	Oct-17
18	GPR scanning for Post Tension Cables on Site	Aseel Construction	NA	Ultracrete	Al Hazem Mall	Oct-17

19	Pull Off Test at People Mover System Project	Medtel - W.N wll	NA	NA	Qatar	Oct-17
20	Nondestructive Testing (Ultra-Sonic Testing (UPV), Impact echo (IE), Crack Monitoring) for Amphitheater - Barwa City	KCIC	NA	NA	Doha, Qatar	Oct-17
21	NDT Testing, Extraction of Concrete Core for Compressive Strength Testing, Impulse Response, Impact Echo	Lusail	NA	QD-SBG	Lusail, Qatar	Oct-17
22	Ultrasonic Pulse Velocity for various locations at Concrete bridge deck	PWC	-	MIDMAC / Yuksel JV	Lusail, Qatar	Nov-17
23	GPR Scanning for Cold Joints and Voids for RC Walls	Qatar Gas	-	Galfar Al-Misnad Engineering/ QCTC	Ras Laffan, Qatar	Jan-18
24	Crack Mapping & Nondestructive Testing	Mawani Qatar – Hamad Port	-	China Harbour Engineering Company	Mesaieed, Qatar	Jan-18
25	Load Testing for various Structural Elements (beam & slabs)	Mowasalat	-	QCTC	Doha, Qatar	Apr-18
26	Site Inspection & Survey, NDT, Material Testing, Service Life Prediction, Modelling & Analysis, Repair Recommendation	Qatar Petroleum	Bilfinger	N/A	Ras Laffan, Qatar	Apr-18
27	Nondestructive Testing using Impulse Response & Repair Recommendation	KIPIC	Wood (Amec Foster Wheeler Iberia)	Hyundai Engineering & Construction	Al Zour, Kuwait	Apr-18
28	Condition Assessment of Various RC Structures including inspection, testing and repair recommendations	Qatar University	-	-	Doha, Qatar	Jul-18
29	Nondestructive Testing using Impulse Response Technique for various Concrete Elements at Strategic Food Security Storage Project	Hamad Port	Dorch Qatar	Al Jaber Engineering	Wakra, Qatar	Oct-18
30	Relative Humidity Testing for Concrete Floor Slab using in-situ probes– Western Green Spine Pedestrian Underpass Project (WGSP)	Qatar Foundation	PARSONS	Redco International	Doha, Qatar	Nov-18
31	Material Testing and Non Destructive Testing for Structural Elements of Building	Private Engineering Office	N/A	QCTC	Doha, Qatar	Nov-18
33	Condition Assessment & Evaluation for Al Wakrah British School	Artan Holding	N/A	House of Architecture & Interior (HAI)	Wakrah, Doha	Feb-19
34	NDT and Slab Load Testing – Shield 5 Program, project555	Ministry of Defense	US Corps of Engineers/Parsons	MIDMAC	Al Rayyan, Qatar	May-19
35	Condition Assessment & Monitoring for Noted Cracks and Settlement at a Private Villa near Landmark Mall	Private	N/A	House of Architecture & Interior (HAI)	Doha, Qatar	May-19
36	Impulse Response Testing for Concrete Raft	Private	CEC	Ultracrete	Ras Laffan, Qatar	May-19
37	NDT (GPR scanning & UPV testing)	Al Khulaify Palace	Al Kashaf International	Palmera Landscape	Laqtiya, Doha	June-19

38	Development of As-Built Drawings & Structural Assessment for Doha British School	Artan Holding	---	House of Architecture & Interior	Doha, Qatar	2019
39	Delamination Survey for Slab Soffit	Artan Holding	---	House of Architecture & Interior	Doha, Qatar	2019
40	Slab Load Testing – Shield 5 Project	Ministry of Defense	Parsons	MIDMAC Contracting	Doha, Qatar	2019
41	Condition Assessment of noted settlement & cracks at private villa	Private	---	House of Architecture & Interior	Doha, Qatar	2019
42	Condition Assessment for 34 different structures-Refurbishment of Doha West Wastewater Treatment Project	Public Work Authority	STANTEC	SUEZ/QCTC	Doha, Qatar	2019
43	Development of As-Built Drawings for Steel Structure at old showroom – Industrial Area	Mannai	Petra Design	---	Qatar	2019
44	Development of As-Built Drawings & Revit Model for Art Mill Museum & Cultural Center	Qatar Museums	KEO	---	Ras Abu Abboud	2020
45	Condition Assessment & Durability Study for Bldg #08 - MOD	Ministry of Defense	QECE	Redco Construction Al Manaa	Doha, Qatar	2020
46	Laboratory Testing for Water Leakage Investigation for LA24 Construction of Pearl Showroom	UDC	GHD Group	---	Pearl, Qatar	2020
47	Inspection, Testing & Assessment of Slab Areas (MJ-628)	Qatar Petroleum	---	Medgulf	Ras Laffan, Qatar	2020
48	Material Testing & Nondestructive Evaluation for NGL Structure #1	Qatar Petroleum	---	TUV Rheinland Gulf	Mesaieed, Qatar	2020
49	Inspection & Material Testing Ras Laffan Water Fall	Qatar Petroleum	Jensen Hughes	---	Doha, Qatar	2020
50	NDT & Materials Testing of Basement 2 & 3 (Qatar Petroleum District Project)	Qatar Petroleum	Buro Happold	Fugro	Doha, Qatar	2020
51	Condition Assessment Study for Industrial Interchange	ASHGHAL	CDM Smith	MP JV (Parsons)	Doha, Qatar	2020
52	Condition Assessment for Transformer Building - EPIC for Common Cooling Seawater System Phase-3	Qatar Petroleum	N/A	Medgulf	Ras Laffan, Qatar	2020
53	Service Life Study & Quality Control for Repair Works for Bldg #08 at Ministry of Defense Headquarters	Ministry of Defense	QECE	Redco Construction Al Manaa	Doha, Qatar	2020
54	Assessment of Various Structural Elements – NTRF - DWSTP	ASHGHAL	STANTEC	SUEZ	Doha, Qatar	2021
55	Condition Assessment of Drum Screen Inspection inside CFF	Qatar Petroleum	N/A	Medgulf	Ras Laffan, Qatar	2021
56	GPR Scanning to detect embedded steel reinforcement in foundations	Qatar Petroleum	N/A	Medgulf	Ras Laffan, Qatar	2021

57	Condition Assessment of Residential Building near Jarir Bookstore (Salwa Road)	Private	N/A	Tender Contracting	Doha, Qatar	2021
58	Study Assessment Repair/Replace Culverts – DCA	QatarEnergy	Energo Projekt Entel	---	Dukhan	2021
59	Impulse Response Testing for Concrete Structural Elements – Doha Oasis Project	Haloul Real Estate	AECOM	IMAR / CIVE Qatar	Doha, Qatar	2021
60	Third Party Inspection Services New Gasoline and Jet Storage Facilities Mesaied industrial city	QatarEnergy	---	Rotary Engineering	Mesaieed, Qatar	2022
61	Load Testing for Roof Panel (Cultural Center in Education City)	Qatar Foundation	ASTAD	Redco Al Manaa	Doha, Qatar	2022
62	Capping Beam Concrete Assessment Study for MIC Berths	Qatar Energy	---	---	Mesaieed, Qatar	2022
63	On-Call Consultancy Services for Highway Structures	ASHGHAL	Louis Berger (WSP)	---	Doha, Qatar	2022
64	NDT Works for Existing Structures at QG1, RL1, RLTO	QatarGas	---	Chiyoda Al Mana	Ras Laffan, Qatar	2022
65	Investigation & Assessment of Assessment	Al Asmakh Real Estate Development	---	Borog Trading	Doha, Qatar	2022
66	Material Testing & Evaluation for Concrete Structure	Qatar Steel	---	TUV Rheinland	Mesaieed, Qatar	2022

CONCRETE AND AGGREGATE						
#	Project Name	Client	Consultant	Contractor	Location	Date
1	Evaluation of Material	Sana Crushers	NA	NA	Qatar	2015
2	Testing of Aggregates & Cement	Gulf Readymix	NA	NA	Industrial Area, Qatar	Jan'15 to Dec'15
3	Concrete Testing & Evaluation - Batiniya Expressway	MOCT	NA	L&T Oman	Oman	Nov'15
4	Material Testing & Evaluation	Synaxis	NA	NA	Qatar	Sep'15
5	Material Testing & Evaluation - Umm Obariya Complex	Man Enterprise	NA	Man Enterprise	Qatar	Sep'15
6	Evaluation of Material (20mm Gabbro, 10mm Gabbro, 10mm Lime Stone, Washed Sand)	Synaxis	NA	NA	Qatar	Jan'16 to Dec'16
7	Material Evaluation of Tiles (Bending Strength & Stain Test)	Granada	NA	NA	Qatar	Jan'16
8	Concrete Quality Assessment (Physical and Chemical)	Apollo	NA	NA	Qatar	Feb'16
9	Concrete Quality Assessment , Integrity of Existing Jetty Structure at Messaid NGL-2	Penspen	NA	NA	Mesaaid, Qatar	Oct'16
10	Material Evaluation (Testing for Aggregate, Soil & Concrete)	GET	NA	NA	Qatar	Dec'16
11	Material Evaluation of 20mm Aggregate, 10mm Aggregate & washed Sand	Al Tasneem Readymix	NA	NA	Qatar	Jan-17
12	Material Evaluation of 20mm Gabbro, 10mm Gabbro, 10mm Lime Stone, 5mm Lime Stone, Washed Sand, Plaster Sand.	KCIC (Block Division)	NA	NA	Industrial Area, Qatar	Jan'17 to Dec'17
13	Material Evaluation of Admixture, 20mm Gabbro, 10mm Gabbro, Washed Sand & Brakish Water	KCIC (RMC Division)	NA	NA	Industrial Area, Qatar	Jan'17 to Dec'17
14	Material Evaluation	New Touch General Maintenance	NA	NA	Qatar	Jan-17
15	Material Evaluation of Water Permeability of Concrete, Water Absorption of Concrete, RCP, Compressive Strength of Cubes, Acid Soluble Chloride & Sulphate	KCIC - RMC	NA	NA	Industrial Area, Qatar	Jan'17 to Dec'17
16	Material Evaluation, Extraction of Concrete Core	Mr. Hosam Aldeen Mustafa	NA	NA	Qatar	Feb-17
17	Lusail LRT, Compressive strength of Masonry units,	QDVC	NA	NA	Qatar	Feb-17
18	Evaluation of Material, Chemical Test of Admixture, Hollow Block, OPC & SRC Cement Chemical & Physical Test, Concrete Tile, Fire Resistance Block & Interlock	KCIC - Block	NA	NA	Industrial Area, Qatar	Jan'17 to Dec'17
19	Material Evaluation, Concrete Core Extraction	New Touch General Maintenance	NA	NA	Industrial Area, Qatar	Mar-17
20	Material Evaluation of Fire resistance of concrete and masonry units	Qatar Clay Bricks	NA	NA	Industrial Area, Qatar	Mar-17

21	Material Evaluation	Urbacon Trading Company	NA	NA		Mar-17
22	Evaluation of material, Activity Index of Silica Fume, Water Soluble Chromium	Al Jabor Cement Industries	NA	NA	Mesaaid, Qatar	Mar-17
23	Material Evaluation of 20mm Gabbro, 20mm Stevin Rock Limestone, 10mm Gabbro, 10mm Stevin Rock Limestone & Washed Sand	Readymix Qatar	NA	NA	Qatar	Apr'17 to Dec'17
24	Material Evaluation, Compressive Strength of Concrete Core, Acid soluble chloride content of hardened concrete, Acid soluble sulphate content of hardened concrete	QCTC	NA	QCTC	HMC Womens Hospital	May-17
25	Condition assessment, Concrete Core Compressive Strength, Acid Soluble Chloride, Acid Soluble Sulfate, Carbonation Depth, Ultrasonic Pulse Velocity, Rebound Hammer Test, Concrete Core Extraction	Ministry of Environment	NA	NA	Doha, Qatar	Jun-17
26	Material Evaluation, Compressive strength of concrete specimens (3d, 7d & 28days),	Ultracrete LLC	NA	NA	Precast, Industrial Area	Jul-17
27	Material Evaluation of Fly Ash Fineness, 45 micron Sieve	Gulf Additives & Chemical Factory	NA	NA	Qatar	Aug-17
28	Material Evaluation, Extraction Concrete Core	Platinum Company	NA	NA	Airport Street	Apr-17
29	Material Evaluation, Fineness by the 45-µm Sieve of Fly Ash	Buildex Trading & Contracting	NA	NA	Qatar	Aug-17
30	NRMCA Training at Sohar Plant	Al Tasneem Readymix	NA	NA	Oman	Aug-17
31	Material Testing of Hollow Block, 20cm, 5N, Limestone, Hollow Block, 20cm, Gabbro, 20mm Gabbro, 10mm Gabbro, 10mm Limestone & Washed Sand, Compressive strength of concrete specimens (3d, 7d & 28days)	Group One for Block, Interlock & Kerbstone	NA	NA	Industrial Area, Qatar	Sep-17 (Ongoing)
32	Material Evaluation & Compressive strength of concrete specimens	Khouzan Cement Industries Complex	NA	Ultracrete	Precast Dukhan & Al Owina	Sep-17
33	Concrete Sampling, Testing & Evaluation for Slabs and Walls	ALMAJED GROUP	NA	NA	Al Saad, Qatar	Oct-17
34	Construction Material Testing (cement, aggregate & concrete)			Advanced Pipes & Casts		June-19 (Ongoing)
35	Construction Material Testing (cement, aggregate & concrete)	Sabea Ready Mix	NA	NA	Industrial Area, Qatar	Dec-17 (Ongoing)
36	Construction Material Testing (cement, aggregate & concrete)	Barzan Ready Mix	NA	NA	Mesaieed, Qatar	Feb-18 (Ongoing)
37	Construction Material Testing (cement, aggregate & concrete)	AL RAYYAN RMC	NA	NA	Industrial Area, Qatar	Fe, Jun-18

38	Construction Material Testing (cement, aggregate & concrete)	SABEA HOLLOW- CORE AND PRECAST	NA	NA	Industrial Area, Qatar	Aug-17 (Ongoing)
39	Durability Testing for Concrete	OMAN PORTOGESE RMC	NA	NA	Duqm, Oman	Nov-18
40	Construction Material Testing (cement, aggregate & concrete)	Al Wataniya Ready Mix	NA	NA	Doha, Qatar	Mar-18 (Ongoing)
41	Concrete & Agregate Testing (ASTM & BS EN)	United Readymix	NA	NA	Doha, Qatar	May-19 (Ongoing)

CHEMISTRY						
#	Project Name	Client	Consultant	Contractor	Location	Date
1	Water Chemical Analysis - Water Recycling Plant	KCIC (Block Division)	NA	NA	Industrial Area, Qatar	2015
2	Material Evaluation of Water Proofing (Physical & Chemical Test, Pull off Test)	ASPEC	NA	NA	Qatar	Jan'16 to Dec'16
3	Evaluation of Material (Admixture Physical & Chemical Test, Hardened Concrete & Reinforcement)	Sodamco	NA	NA	Qatar & Oman	Nov'16
4	Material Evaluation of Lime Stone	Urbacon	NA	NA	Qatar	Nov'16
5	Full Chemical and Physical Analysis of OPC Cement	Al Khalij Cement	NA	NA	Umbab, Qatar	Nov'16- Mar'17
6	Material Evaluation of Lime Stone	Urbacon	NA	NA	Qatar	Nov'16
7	Evaluation of Material (Chemical Analysis of Chilled Water, Aggregate & Cement)	Gulf Readymix	NA	NA	Industrial Area, Qatar	Jan'17 to Dec'17
8	Evaluation of Material, Chemical Analysis & Physical Analysis of OPC & SRC Cement	Al Khalij Cement	NA	NA	Umbab, Qatar	Feb-17
9	Evaluation of Material, Chemical Analysis & Physical Analysis of OPC, SRC, GGBFS, Fly Ash	Gulf Additives & Chemical Factory	NA	NA	Qatar	Feb-17
10	Material Evaluation of Water Proofing (Physical & Chemical Test, Pull off Test)	ASPEC	NA	NA	Qatar	Apr-17
11	Material Evaluation of Sea Water	Gulf Organization for Research & Development	NA	NA	Qatar	Apr-17
12	Evaluation of material, Stainless Steel Tensile Strength & Chemical Analysis	Style For Steel Engineering & Metal Casting W.L.L	NA	NA	Qatar	Apr-17
13	Material Evaluation, Washed Sand, Chemical & Physical Analysis of OPC & SRC, GGBS, Silica Fume	Readymix Qatar	NA	NA	Qatar	Apr'17 to Dec'17
14	Sea water analysis	Gulf Organization for Research & Development	NA	NA	Qatar	Jul-17
15	Material Evaluation, Full Chemical Analysis of GGBFS and Physical Test	United Gulf Cement Company	NA	NA	Mesaaid, Qatar	Aug-17
16	Evaluation of Material, sea water analysis	Gulf Organization for Research & Development	NA	NA	Qater Foundation	Aug-17
17	New Product Tetsing, Compressive Strength and Setting Time of Gypsum	Gulf Organization for Research & Development	NA	NA	Qatar	Oct;17 to Dec'17
18	Evaluation of Material , Acid Soluble Chloride and Acid Soluble Sulfate, core compressive strength	Private	NA	MATTA Contracting	Shahaniya, Qatar	Oct-17

SOIL AND ASPHALT







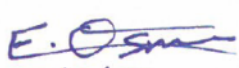
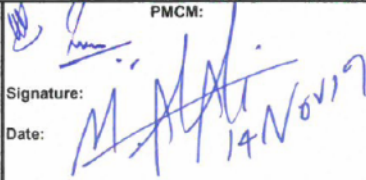
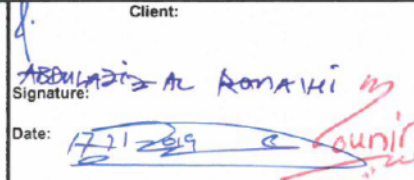
#	Project Name	Client	Consultant	Contractor	Location	Date
1	Material Evaluation of Soil Testing (Lab Maximum Dry Density, Liquid Limit, Plastic Limit, Sieve Analysis, Petrography Test)	QGPSM	NA	NA	Qatar	2015
2	Soil Sampling & Testing	Private	NA	Khalid Contracting	Industrial Area, Qatar	Jan'15 to Dec'15
3	Al Khor Camp, Material Evaluation of Backfill	QEPCO	NA	NA	Al Khor, Qatar	Jan'16
4	Material Evaluation of Soil	Royal Touch	NA	NA	Qatar	April'16
5	Material Evaluation of Concrete Core Extraction, Particle size distribution (Gradation), Modified proctor, California Bearing Ratio (CBR), Sand equivalent, Liquid Limit, Plastic Limit & Plasticity index, Fractured particles, Soundness by Magnesium Sulfate, Resistance to degradation by LA machine, Acid / Water soluble Sulphate, Acid / Water soluble Chloride, pH value, Organic content for Subbase.	Khalid Contracting	NA	NASCO	Doha,	Jan'17 to Dec'17
6	Soil Density Testing using Nuclear Density Gauge	Al Khulaify Palace	Al Kashaf International	Palmera Landscape	Laqtiya, Doha	June-19

TRAINING & CERTIFICATIONS

#	Project Name	Client	Consultant	Contractor	Location	Date
1	NRMCA Certification for Concrete Plants & Delivery Trucks	Serka	N/A	N/A	Oman	Jan-18
2	NRMCA Certification for Concrete Plants & Delivery Trucks	Unibeton	N/A	N/A	Doha, Qatar	Jan/Feb 2018
3	NRMCA Certification for Concrete Plants & Delivery Trucks	Sabea Readymix	N/A	N/A	Doha, Qatar	Jan/June 2018
4	Training on Concrete Fundamentals & Testing (in collaboration with ASHGHAL & ASTM)	Various	N/A	N/A	Doha, Qatar	March-18
5	NRMCA Certification for Concrete Plants & Delivery Trucks	Al Wataniya	N/A	N/A	Doha, Qatar	April-Jul-Dec 2018
6	Concrete Fundamentals Training (in collaboration with ASHGHAL & ASTM)	Various	N/A	N/A	Doha, Qatar	Apr-19
7	Fresh Concrete Sampling & Testing (in collaboration with ASHGHAL & ASTM)	Various	N/A	N/A	Doha, Qatar	Apr-19
8	NRMCA Certification for Concrete Plants & Delivery Trucks	Barzan	N/A	N/A	Doha, Qatar	Apr-19
9	NRMCA Certification for Concrete Plants & Delivery Trucks	Sabea	N/A	N/A	Doha, Qatar	May-19

MOBILE TESTING LABS						
#	Project Name	Client	Consultant	Contractor	Location	Year
1	Site Mobile Lab for Construction Works at Shield 5 Program (Testing of Concrete, Aggregates, Soil & Asphalt)	Qatar Ministry of Defense /	US Corps of Engineers	AICI / Al Seal JV	Doha, Qatar	2018
2	Testing of Concrete & Aggregates – Fresh Concrete Sampling & Testing) at ISF Camp	Ministry of Interior	Dar Al Handasah	Aktor / Al Jaber Engineering	Duhail, Qatar	2018
3	Sampling & Testing of various Construction Material (Concrete, Soil, Asphalt, Steel, Water) - QIMC Tower	Qatar Industrial Manufacturing Company - QIMC	Arab Engineering Bureau	Redco Construction Al Manaa	Doha, Qatar	2018
4	Field Sampling & Testing for ongoing Construction of Alar Hotel Project	Thornham Qatar	Shaker	MAN Enterprise	Doha, Qatar	2019
5	Design & Construction of Duhail Villa Project	Private Owner	Erga	UCC / Palmera Landscape	Doha, Qatar	2019
6	10 Residential Villas (G+F+PH)	Private Owner	JCP Engineering	Al Madar Contracting	Doha, Qatar	2019
7	Design and Build for Additional Modification to (27) Schools – Package 1 & 2	Public Works Authority	Engineering Consultants Group	Amana Contracting	Doha, Qatar	2019
8	Umm Al Dome Improvement	Public Works Authority	Italconsult	Petroserve / Strukton JV	Doha, Qatar	2019
9	Design and Build – Ministry of Defense Headquarters	Ministry of Defense	Qatar Armed Forces	Redco Construction Al Manaa	Qatar	2020
10	HIAEP - Passenger Terminal – Central Concourse Building	Hamad International Airport	Hill - DAR	MIDMAC-TAV-Taisei	Doha, Qatar	2020
11	Design & Build Works for Lusail Plaza Towers Plot 1 & 2 (BP12A & 12B)	Lusail Real Estate Development Company	Louis Berger-QPM JV	MIDMAC-MIC JV	Lusail, Qatar	2020
12	Doha Live (Hotel + Retail)	Al Baker Investments	Al Baker Architects	Redco Construction Al Manaa	Qatar	2019
13	DW082 Al Sailiya & Al Hamm Street Surface Water	Public Works Authority	Italconsult	Al Waha Contracting & Trading	Qatar	2019
14	Al Baker Towers Hotel	Al Baker Investments	Al Baker Architects	Redco Construction Al Manaa	Qatar	2020

15	Design & Construction of Industrial & Mubaireek Interchanges	ASHGHAL	CDM Smith	MIDMAC – PORR JV	Industrial Area, Qatar	2020
16	Main Works for FDTA Facility – Hamad International Airport	Hamad International Airport	DAR	Redco Construction Al Mana	Doha, Qatar	2020
17	Treated Sewage Effluent Polishing Project - KATARA	KATARA	KEO International	MAN Enterprise	Katara, Qatar	2021
18	Renovation & Extension of Shoura Council Buildings (Pckg 1 & 3)	Hamad Medical City	GHD Global	Redco Construction Al Manaa	Doha, Qatar	2021
19	RC Al Mana New HQ Energy City Lusail	Private	N/A	Redco Construction Al Manaa	Doha, Qatar	2021
20	Cultural Center Project in Education City	Education City	ASTAD	Redco Construction Al Manaa	Doha, Qatar	2021
21	Data Center – Ras Abu Fountas Project	Um Al Houli	Khatib & Alami	AMANA Contracting	Doha, Qatar	2021
22	Material Sampling & Testing of Fresh Concrete, Pull Off Test & Petrography Examination (Mockup Rectification Works for RLIC Seawater Return Facility)	QatarEnergy	Jensen Hughes	QCTC	Ras Laffan	2021
23	F&B District at Intercontinental Doha Hotel & Residences	Gulf Hotels Company	DAR	MAN Enterprise	Doha, Qatar	2022
24	Third Party Material Testing For Soil, Concrete, Asphalt & Steel Testing (ALAR Grand Villas – N7)	DAMSA HOLDING	SHAKER	MAN Enterprise	Lusail, Qatar	2022
25	Roads and <u>Infra</u> in Al Mearad and Southwest of Muaither - Package 3	ASHGHAL	CDM Smith	Petroserv Limited	Doha, Qatar	2022
26	CP28-Early Works (Enabling) for Huzoom Lusail Early Works and Phase 1	QDREIC	Parsons	QD-SBG Construction	Lusail, Qatar	2022
27	Third Party Material Testing For Soil, Concrete, Asphalt & Steel Testing (Private Palace)	---	---	MAN Enterprise	Al Khor, Qatar	2022
28	3 rd Party Material Testing – Concourse D&E Expansion Works (HIAEP-0065)	MATAR	DAR	MIDMAC	Doha, Qatar	2022
29	Design and Construction of New Light Industrial Unit for City Neon	Qatar Free Zone	KIEC	AMANA Contracting	Ras Bufontas, Qatar	2022
30	Design & Construction of Eight Boutique Warehouses	Qatar Free Zone	KIEC	AMANA Contracting	Doha, Qatar	2023

		DESIGN AND BUILD OF MIXED USED BUILDINGS COMMERCIAL BOULEVARD (BP 18A)				
SUBMITTAL FORM				Submittal No. CBD-BP18A-AP-RED-DCQ-SUB-PD-CV-0273	Rev. 1	
				Date: November 3, 2019		
CONSULTANT: DORSCH QATAR				Submittal Type PREQUALIFICATION DOCUMENT		
CONTRACT: DESIGN AND BUILD OF MIXED USE BUILDINGS - COMMERCIAL BOULEVARD (BP18A) TENDER NUMBER: 55012006		PLOT NO: ALL PLOTS		ACTION CODES		
FROM : REDCO CONSTRUCTION - ALMANA		Signature: 		APPROVED	A	
TO : DORSCH				APPROVED WITH COMMENTS	B	
CC : ELLISDON				REVISE AND RESUBMIT	C	
Subject : PREQUALIFICATION DOCUMENT OF M/S CTL Group Qatar WLL for Third Party Laboratory Testing.				REJECTED	D	
				FOR INFORMATION	E	
Contractor certify that the submission is in full compliance with local requirements and local authorities regulations.				Date: 3-Nov-19		
Contractor's Signature: 				Date:		
Following is the list of documents submitted.						
ITEM	QTY.	Dwgs., Specs. or BOQ Ref.	DOCUMENT / DRAWING NO.	DESCRIPTION	TYPE	CODE
						SUBMIT. ACTION
1	3	NA	CBD-BP18A-AP-RED-DCQ-SUB-PD-CV-0273	PREQUALIFICATION DOCUMENT OF M/S CTL Group Qatar WLL for Third Party Laboratory Testing.	PD	FOA B
						
Supervision Consultant's Comments:						
# Refer to attached comments sheet						
# Recommended for Approved with comments Code (B) 12/11/2019						
PMCM's Comments:						
Subject to enclosed comments.						
QD-Comments: CTL may not be used in any test not approved by Ashghal. Examples: CTL not approved for water absorption test, ISAT & all water proofing tests						
An Approval, correction or comments DO NOT relieve the Contractor of his obligation under the Contract.						
Supervision Consultant:		PMCM:		Client:		
Signature: 		Signature: 		Signature: 		
Date: 12/11/19		Date: 14 Nov 19		Date: 17/11/19		
Note: Compliance Form duly filled is enclosed herewith.						
* TYPE: Shop Drawings, Drawings, Inspection Test Plan, Material Submittal, Method Statement etc.						

Lusail-BP12 - A - Lusail Plaza Towers Plot No.01 – Main Work
Lusail Development
Doha
23175 Qatar

Louis Berger - QPM Joint Venture
Jaidah Square, Suite 602A
Airport Road
Doha
202401 Qatar
Ph. +974 4 44015800



MAIL TYPE
Workflow Transmittal

MAIL NUMBER
LBQPMJV-WTRAN-001149

REFERENCE NUMBER
LBQPMJV-WTRAN-001149



Final (WF-002568) Construcion Submission for PMC Review / Approval - Company Pre-Qualification Approval Request for Third party Testing Laboratory - Construction Technology Laboratories Group

From Evelyn Tingabgab - Louis Berger - QPM Joint Venture
To (6) Mr Graham Davis - Louis Berger - QPM Joint Venture (+5 more...)
Cc (21) Mr Christopher Bell - Louis Berger - QPM Joint Venture (+20 more...)
Sent Sunday, 19 April 2020 1:09:29 PM GST (GMT +04:00)
Status N/A

MIDMAC - MIC Joint Venture (MMJV) (PROJECT - 562-QLT)		
Design & Build Works for Lusail Plaza Towers Plots 1 & 2 (BP12A & BP 12B)		
Ref.	Plot 1	Plot 2
DISTRIBUTION	INFO	ACTION
Project Director		
By Project Director		
Project Manager		
Construction		
Design / Technical		
Interface		
Contract Administration		
MEP		
Planning		
Survey Team		
HSE		
QA/QC		
Procurement		
Site Administration		
Stores		
MMJV Main Offices		
Others		
		Status

DOCUMENT ATTACHMENTS (2)

(0 selected)

File	Document No	Revision	Revision Date	Title	
	9204-BP12A-MMJV- PRS-QL-NS-000- 00006	000	15/04/2020	Company Pre-Qualification Approval Request for Third party Testing Laboratory - Construction Technology Laboratories Group	B - Approved with Comments
	9204-BP12A-MMJV- PRS-QL-NS-000- OCS-00006	000	15/04/2020	OCS_Company Pre-Qualification Approval Request for Third party Testing Laboratory - Construction Technology Laboratories Group	B - Approved with Comments

MESSAGE

Workflow Review History

The attached documents have completed the "Construcion Submission for PMC Review / Approval - Company Pre-Qualification Approval Request for Third party Testing Laboratory - Construction Technology Laboratories Group" workflow with the following results :

This transmittal was automatically generated.

SUBCONTRACTOR / SUPPLIER APPROVAL SUBMITTAL (SAS)

CONTRACTOR: MIDMAC-TAV-TAISEI Joint Venture

Contract Work Package: HIAEP-00013

SAS No. ME-00013-A7120-CN-MTT-B-PQD-0001-R - REV.0

Discipline: Composite, Multi-Discipline Documents

Sub-Contractor / Supplier Name

Construction Technology Laboratories Group WLL

Local Status

Local Co. CR 69008

Registered Address

11809

Head Office Address

Ind. Area-Al Kassarat Road-R/A 41

Activity to be Undertaken

Third Party Material Testing

ISO Certification

attached

Specification/Contract Document Reference

Sec. 220590

Description of Attachments

Prequalification Document (Company Profile)

Comparison in case of Alternative Submittal

Comments:

Contractor's Authorized Rep.:

Signature & Company Stamp

Date: 20 JAN 2020



PMCM'S COMMENTS / RECOMMENDATIONS:

The proposed supplier/subcontractor satisfy the requirement for the attached list of tests as approved by Ashghal circular Number 41-2019 dated 29/12/2019. According he is recommended for approval to conduct the same list of tests.



CLIENT / STAKEHOLDER'S COMMENTS (if applicable):

An approval does not relieve the Project Manager of his obligations under the Contract. Furthermore, an approval does not relieve the Contractor of his obligations under the Contract and he shall be liable for all acts, defaults and negligence by the Subcontractor. This approval is only for those tests as approved by Ashghal Circular Number 41-2019 dated 29/12/2019 following the PMCMs recommendation above.

☒ A- Approved ☐ B- Approved with Comments ☐ C-Revise and Re-submit ☐ D-Rejected

Client / Stakeholder Rep.

S. SHAWYER

Signature:

Date:

06/02/2020

PMCM'S APPROVAL:

Approved for the attached list as per Ashghal circular number 41-2019 dated 29/12/2019 only.

☐ A- Approved ☒ B- Approved with Comments ☐ C-Revise and Re-submit ☐ D-Rejected

PMCM Rep.

Sabri Bakri

Signature:

Date:

9/2/2020



DOCUMENT SUBMITTAL

SUBMITTAL NO.: ABDL-RED-PD-00GE-0106 REV: 1
 PROJECT NAME: DOHALIVE (HOTEL+ RETAIL)
 CONSULTANT: AL BAKER ARCHITECTS
 CONTRACTOR: REDCO CONSTRUCTION ALMANA

DATE: February 05, 2020
 PROJECT NO.: P-269

SUBMITTAL TYPE

☐ Technical Submittals ☐ Method Statement ☐ Reports ☒ Prequalification of subcontractor
☐ PQP / ITP ☐ Schedule ☐ Supplier Approval ☐ Test Reports
☐ O&M Manual ☐ Certificates ☐ Others

TRANSMITTED FOR

☒ Approval ☐ Review & Comments ☐ Information/Records ☐ As Requested



METHOD OF TRANSMISSION

☒ Hand ☐ Email ☐ Mail ☐ Upload via FTP

ALBAKER
ARCHITECTS
Doha Live Project

Action	Info
PM	
RE	
Arch	
Civil/Struc.	
Elect.	
ID	
Planner	
Q.S.	
HGE	
Sec/Dc	
S/FILE	
Head Office	
Others	


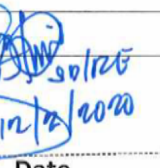

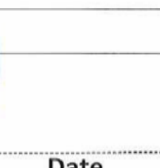
SI	DESCRIPTION	Document Ref. No.	Rev. No.	Format		No. of copies	Remarks
				Hard	Soft		
	Prequalification Document of M/s CONSTRUCTION TECHNOLOGY LABORATORIES GROUP (CTL GROUP QATAR)	ABDL-RED-PD-00GE-0106	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
	Third Party Testing Laboratory						





CONTRACTOR		CONSULTANT	
			
Commercial Manager	Project Manager	Received By	Date & Time

Consultant Comments:
 Refer the comments on the attached sheet.

Action Code: ☐ A= Approved ☒ B= Approved as Noted ☐ C= Revise & Resubmit ☐ D= Rejected

Discipline Engineer: F.PILISAN / SSE **Date:** 09/02/20

CONSULTANT		CONTRACTOR	
			
Project Manager	Date	Received By	Date


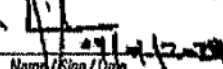
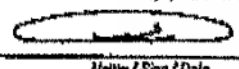
Project Logo: 	Project Name : MINISTRY OF DEFENSE HEADQUARTERS DESIGN & BUILD (B-112-01)		
Client: MOD 	Engineer: 	Form No. : F03-R0	Contractor: 

Submittal Type : <input type="checkbox"/> - Technical Submittals <input type="checkbox"/> - Procedures <input type="checkbox"/> - Others <input type="checkbox"/> - PQP / ITP <input type="checkbox"/> - Supplier Approval <input type="checkbox"/> - Test Reports <input checked="" type="checkbox"/> - Subcon Approval <input type="checkbox"/> - Pro-Qualification <input type="checkbox"/> - Design Data <input type="checkbox"/> - Method Statement <input type="checkbox"/> - Certificates <input type="checkbox"/> - Schedule / Reports	Submittal No. : MOD-RED-PD-01GE-0001 Rev.: 0 Submittal Date : 07th January 2020 Expected Response Date : 15th January 2020 No. of Sets: a.) Hardcopy <u>1</u> Size: _____ b.) E-copy <u>1</u> Type: _____
--	---

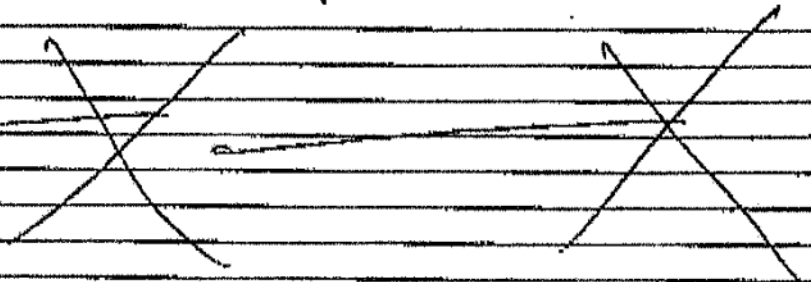
Discipline:
☐ - Civil / Structural ☐ - Mechanical ☐ - Electrical ☐ - Architect / Interior Design ☒ - Others Pre Qualification

Description of Document:
Pre-qualification Document of CTL Group Qatar (3rd Party Testing Laboratory & Speciality Testing Firm) for Ministry of Defense Headquarters Design & Build (B-112-01) Project

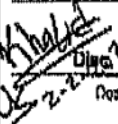
Submitted for:
☒ - Review and Approval ☐ - Re-Submitted for Review & Approval ☐ - For Information & Records

Prepared by:  Name / Sign / Date	Reviewed by: (Contractors Coordinated TM QADOC or HSC)  Name / Sign / Date	Recommended for Submission by: (Contractors PM)  Name / Sign / Date
---	---	--

Refer the attached comments:



Submittal Status :
☐ - Approved ☒ - Approved as Noted ☐ - Revise and Resubmit ☐ - Rejected


Reviewed by: Name / Signature  Designation Date	Approved by: Name / Signature Project Manager Designation Date	Client Rep. Endorsement (when required): Name / Signature Designation Date
---	---	--

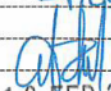
Note: Approval or endorsement issued by the contractor does not relieve the contractor from their responsibilities. The contractor shall ensure the goods or services conform to the contract and shall be responsible for any non-compliance.

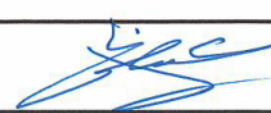
PROJECT: Design & Construction of Duhail Villa Project		EMPLOYER: Private Owner		N°. UCC741-PAB-PRQ-TS-L-00002 rev.0	
CONTRACTOR: 		CONSULTANT: 		 	
TECHNICAL SUBMITTAL					

Type of Submittal:				
Document <input type="checkbox"/>	Sketch/Drawing <input type="checkbox"/>	Test Result <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	
Other (Specify):		Pre-Qualification		
Subcontractor:		Palmera Agricultural Business		

Subject:	Pre-Qualification for CTL Group Qatar for Third Party Testing Laboratory
-----------------	--

Description of Document Submitted:	
Contractor's Representative:	Feras Asadi – Project Manager 
Date: 17-Feb-19	

COMMENTS:	"AAN"
- Comply the comments on the attached comment sheet. <div style="text-align: right;">  19 FEB 2020 </div>	

Status:	A: Approved <input type="checkbox"/>	AAN: Approved As Noted <input checked="" type="checkbox"/>	CA: Conditional Approval <input type="checkbox"/>	
	RR: Revise & Resubmit <input type="checkbox"/>	R: Rejected <input type="checkbox"/>	NFD: Need Further Detail <input type="checkbox"/>	N: Noted <input type="checkbox"/>
Engineer:				Date: 22/2/2020
Approval shall not relieve the Contractor of his liabilities under the Contract or constitute authorization of any change to the Contract Documents				

External Document Transmittal

Project : Expressway

Transmittal No : EXW-P017-0001-QM-PAR-TN-01446

References : EXW-P017-0001-TEK-PAR-TN-00064
CB

Project No : P017C2 – Construction Of
East Industrial Road Between
Al-Muntazah Street and
West Corridor

Issue Date : 14 June 2018

PIL Filing Code: 08.51.08

Project ID No : IA/2017/C/006/G

Reason for Issue: Review of Prequalification

Contract No : C2017/90

Format : Hard Copy

To : Tekfen Construction & Installation Co.
P.O. Box 23584
Doha, Qatar

Attn : Ersin Cetinkaya
Project Manager

Issued By : Georgios Lampridis
Senior Resident Engineer

Issue Method : By Hand

Item	Document No./Title	Rev	Status	Document Title	Qty
1	EXW-P017-0001-QM-TEK-PQ-00018	CB	A	Prequalification File of CTL Group Qatar for Third Party Laboratory Testing - (PQ-00018 CB)	1
2	EXW-P017-0001-QM-PAR-CR-00086	CB	A	Comments Report Sheet No. CR-00086	1

Comments:

Approved

Please acknowledge receipt by returning a signed copy of Transmittal to originator.

ISSUED BY:


Georgios Lampridis

PARSONS

RECEIVED BY:

SIGNATURE



DATE

Ammar Jahangard Mahboub – Ashghal
Zainal Bapoo – Ashghal

km/fv

SUBMITTAL TO THE MANAGER OF DRAINAGE NETWORKS PROJECT DEPARTMENT

Contractor's contract no: C2005/99		SECTION 1 (FOR CONTRACTOR'S USE)						Consultant's contract no: P2019/34													
DATE 07/Apr/20	PROJECT NAME DOHA WEST SEWAGE TREATMENT WORKS EXTENSION NO.3 ANNEXURE NO.3 – REFURBISHMENT OF DOHA WEST STP OLD PLANT	CONTRACT/ PROJECT No. Contract No.: C2005/99 Project Code: CP627 Budget Ref: 1460120/61010		LOCATION Qatar																	
						SUBMITTALNUMBER															
						Civil Project No.		Category		Type	Seq. No.	Rev.									
						C	P	6	2	7	C	I	V	O	T	H	0	0	5	0	3

CC PUBLIC WORKS AUTHORITY
Mr. Saleem Hakawati - DPD/IA Project Manager
P.O. Box 22188
Tel: +974 44850000 - Fax: +974 44317015

TO STANTEC
P.O. Box 207312, C-Ring Road, Doha, Qatar
Tel.: +974 44086333 - Fax: +974 44950900

FROM SUEZ/MARUBENI JV
P.O. Box 24038, Salwa Road, Doha, Qatar
Tel: +974 44502801 - Fax: +974 44502871

ITEM NO.	ITEM DESCRIPTION	ACTION REQUEST CODE	DOCUMENT TYPE	DOCUMENT/DRAWING NO	QTY	CONSULTANT USE	
						STATUS	SIGNATURE
1	Prequalification – CTL Group – Investigation of Structural Conditions of the Existing Structures	FA	Answer Sheet	SEV-CW-000-SD-004-B-AS	Soft Copy	A	PPCA

This certifies that all items submitted herewith have been checked by the Contractor, QC / Designer and are in full conformance with the requirements of the contract documents, except as noted, and are approved by the Contractor for this project.

QC / DESIGNER
(Signature and Title)

This submittal contains deviation	Yes	No	CONTRACTOR (Signature and Title)
		X	

~~SECRET~~

Suez Marubeni JV

Re-establishment of Doherty West Old Plant

SECTION 2 (FOR ENGINEER'S USE)

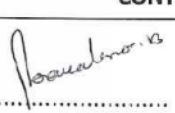
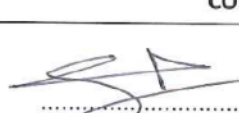

Corrections or comments made on the shop drawings during this review do not relieve Contractor from compliance with the requirements of the Contract. Review of a specific item shall not include review of an assembly of which the item is a component. Contractor is responsible for dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of its work with that of all other trades; and for performing all work in a safe and satisfactory manner. Review of this submittal does not include review of any of the matters referenced in the previous sentence, all of which are the exclusive responsibility of the Contractor.

STATUS:	<input type="checkbox"/> A - NO OBJECTION <input type="checkbox"/> B - NO OBJECTION WITH COMMENTS <input type="checkbox"/> C - REVISE AND RESUBMIT <input type="checkbox"/> D - REJECTED <input type="checkbox"/> E - FOR INFORMATION <input type="checkbox"/> CAN - CANCELLED											
	<div style="display: flex; justify-content: space-between;"> <div> Stantec </div> <div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">RECEIVED DATE</th> <th style="width: 20%;">INITIAL</th> <th style="width: 20%;">DATE</th> <th style="width: 30%;">ACTION</th> </tr> <tr> <td>07/04/20</td> <td>SKL</td> <td>214</td> <td></td> </tr> </table> </div> </div>				RECEIVED DATE	INITIAL	DATE	ACTION	07/04/20	SKL	214	
RECEIVED DATE	INITIAL	DATE	ACTION									
07/04/20	SKL	214										
	<div style="display: flex; justify-content: space-between;"> <div> <p>6K</p> </div> <div> <p>DATE: 12/4/2020</p> <p>ENCLOSURE</p> <p>ITEMS: CS</p> </div> </div>											

DOCUMENT SUBMITTAL

SUBMITTAL NO.: AMA-PKG01-GEN-SOD-CI-008		Revision No. 01
PROJECT NAME: Design and Build for Modification & additional works- To (27) Schools – Package 1 (8) Nos. Schools		PROJECT NO.: BA 2019 C 0021
CONSULTANT: M/S ECG		DATE: 28-Oct-2019
CONTRACTOR: Amana Qatar Contracting		
DISCIPLINE: <input type="checkbox"/> ARCH. <input checked="" type="checkbox"/> CIV. <input type="checkbox"/> STRU. <input type="checkbox"/> ELE. <input type="checkbox"/> MECH. <input type="checkbox"/> INTERIOR DESIGN <input type="checkbox"/> OTHER		
SUBMITTAL TYPE <input type="checkbox"/> Technical Submittals <input type="checkbox"/> Method Statement <input type="checkbox"/> Reports <input type="checkbox"/> Test Results <input type="checkbox"/> PQP <input type="checkbox"/> ITP <input type="checkbox"/> Certificates <input type="checkbox"/> O&M Manual <input type="checkbox"/> Schedule/ Program <input checked="" type="checkbox"/> Prequalification of Subcontractor/Supplier <input type="checkbox"/> Others		
TRANSMITTED FOR <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Review & Comments <input type="checkbox"/> Information/Records <input type="checkbox"/> As Requested		
METHOD OF TRANSMISSION <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Upload via FTP		

SI	DESCRIPTION	Document Ref. No. Specs/BOQ Reference	Rev. No.	Format		No. of Copies	Remarks
				Hard	Soft		
1	Prequalification Document for M/s CTL Group Qatar Scope of works: Laboratory / Material Testing Services	AMA-J130-SOD-CI-PRQ-003	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	02 HC 01 Soft copy	

CONTRACTOR	CONSULTANT
 QA/QC Engineer	 Received By
 Project Manager	Date & Time 29/10/2019 2:00 PM

Consultant Comments:
 * All Calibration Certificates shall be updated in the specific date and shall be comply with QCS

Action Code: ☐ A=Approved ☒ B=Approved as Noted ☐ C=Revise & Resubmit ☐ D=Rejected

Discipline Engineer:  **Date:** 31.10.2019

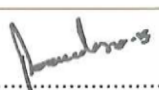

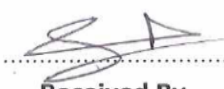
CONSULTANT	CONTRACTOR
Project Manager Date	Received By Date

For the contents of this submittal, approval by the Consultant and the Engineer shall not relieve the Contractor of his obligation under the Contract, and the Contractor shall be solely responsible for the soundness and correctness of the submitted documents.

DOCUMENT SUBMITTAL

SUBMITTAL NO.: AMA-PKG02-GEN-SOD-CI-005 ✓		Revision No. 01
PROJECT NAME: Design and Build for Modification & additional works- To (27) Schools – Package 2 (8) Nos. Schools		PROJECT NO.: BA 2019 C 003 I
CONSULTANT: M/S ECG		DATE: 28-Oct-2019
CONTRACTOR: Amana Qatar Contracting		
DISCIPLINE: <input type="checkbox"/> ARCH. <input checked="" type="checkbox"/> CIV. <input type="checkbox"/> STRU. <input type="checkbox"/> ELE. <input type="checkbox"/> MECH. <input type="checkbox"/> INTERIOR DESIGN <input type="checkbox"/> OTHER		
SUBMITTAL TYPE <input type="checkbox"/> Technical Submittals <input type="checkbox"/> Method Statement <input type="checkbox"/> Reports <input type="checkbox"/> Test Results <input type="checkbox"/> PQP <input type="checkbox"/> ITP <input type="checkbox"/> Certificates <input type="checkbox"/> O&M Manual <input type="checkbox"/> Schedule/ Program <input checked="" type="checkbox"/> Prequalification of Subcontractor/Supplier <input type="checkbox"/> Others		
TRANSMITTED FOR <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Review & Comments <input type="checkbox"/> Information/Records <input type="checkbox"/> As Requested		
METHOD OF TRANSMISSION <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Upload via FTP		

SI	DESCRIPTION	Document Ref. No. Specs/BOQ Reference	Rev. No.	Format		No. of Copies	Remarks
				Hard	Soft		
1	Prequalification Document for M/s. CTL Group Qatar Scope of works: Laboratory / Material Testing Services	AMA-J131-SOD-CI-PRQ-003	01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	02 Hard Copy & 01 Soft copy	

CONTRACTOR	CONSULTANT
  QA/QC Engineer Project Manager	 Received By <div style="text-align: right;">2.00 P.M 29/10/2019</div> Date & Time

Consultant Comments:

.....

Action Code: ☐ A=Approved ☒ B=Approved as Noted ☐ C=Revise & Resubmit ☐ D=Rejected

Discipline Engineer:

Date: 31-10-2019

CONSULTANT	CONTRACTOR
 Project Manager Date: 31/10/2019	 Received By Date:



For the contents of this submittal, approval by the Consultant and/or the Discipline Engineer shall not relieve the Contractor of his obligation under the Contract, and the Contractor shall be solely responsible for the soundness and correctness of the submitted documents.

PROJECT: CONSTRUCTION OF ADDITIONAL FACILITIES FOR COMMUNITY COLLEGE OF QATAR		EMPLOYER:  قطر تستحق الأفضل Qatar Deserves The Best	N° DS : AMA-J132-PRQ-CI-002 Rev 0
CONTRACTOR: 	CONSULTANT: 	RECEIVED  	
DOCUMENT SUBMITTAL			

Type of Submittal:				
Document <input checked="" type="checkbox"/>	Sketch/Drawing <input type="checkbox"/>	Test Result <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	
Other (Specify):		Prequalification of subcontractor		

Subject:	Prequalification of M/S CTL GROUP
-----------------	-----------------------------------

Description of Document Submitted: Prequalification of M/S CTL GROUP Scope : Third party laboratory for Testing concrete, steel, compaction, blocks etc
Contractor's Representative: Engg Mohammad Khair
Date: 29-Oct-2019

COMMENTS: 1. CALIBRATION CERTIFICATE FOR THE EQUIPMENT SHALL BE LATEST VALID. 2. UPON REQUEST PLANT VISIT ON M/S CTL TEST LABS SHALL BE CONDUCTED ACCORD. 3. TESTING KEY PERSONNEL/STAFF SHOULD BE WITH M/S CTL GROUP DOING RELEVANT TESTING WORKS OF PREVIOUS PROJECTS.				
ERGA - STRUCTURAL  06.11.2019				
Status:	A: Approved <input type="checkbox"/>	AAN: Approved As Noted <input checked="" type="checkbox"/>	CA: Conditional Approval <input type="checkbox"/>	
	RR: Revise & Resubmit <input type="checkbox"/>	R: Rejected <input type="checkbox"/>	NFD: Need Further Detail <input type="checkbox"/>	N: Noted <input type="checkbox"/>
Engineer:				Date:
Approval shall not relieve the Contractor of his liabilities under the Contract or constitute authorization of any change to the Contract Documents				



مشروع ميناء حمد
HAMAD PORT PROJECT



Ref: No. NPP/0085/LT/JEC/2018/0358

Date: 17 December 2018

Al-Jaber Engineering L.L.C
P.O. Box 22801
Doha, Qatar

References: 1) NPP0085-LTR-JEC-NPP-1027 dated 05 December 2018
2) NCR 0007/CIV

Attention: Mr. Shadi Khashab
Project Director

Subject: Hamad Port Project (HPP)
NPP/0085: Strategic Food Security Facilities
Non Compliance Report No. 0007-CIV

Abdallah

AL JABER ENGINEERING		
NPP/383		
Strategic Food Security Facilities		
File No.	NPP	
Date.	17-12-18	
DIST.	ACT / INFO	
HO-Head Office		/
PD - Proj. Dr.		/
SPM-Sr.Proj. Mgr.		/
PM - Proj. Mgr.		/
MEP PM		
Comm. Mgr.		/
PCM-Proj. Control Mgr.		
DD-Design Director		
CM-Construction Mgr.	/	
QA/QC Mgr.	/	
TM - Tech. Mgr.		
HS Mgr.		
Env. Mgr.		

Dear Mr. Khashab,

The HPP writes with reference to Al-Jaber Engineering (Contractor) letter Ref: 1 regarding the acceptance of the CV's for the specialists employed by M/s CTL Group Qatar who will be responsible for the assessment and recommendations for the affected works regarding the Ref: 2 NCR No. 0007/CIV.

The Contractor is hereby advised that the HPP has no-objection to the specialists' qualification to carry out the delegated task and proceed with the assessment works.

Also, the HPP would like to reiterate that M/s CTL Group Qatar shall be tasked to perform in their full capabilities including but not limited to:

1. conducting condition assessment,
2. structural integrity evaluation, and
3. providing engineering/repair recommendations for the affected works which shall be free from any influence from the Contractor.

This is for your information and reference.

Yours faithfully,

Jassim M. Al-Shirawi
Project Executive Director

cc: HPP, PMC (DORSCH Qatar)

Encl.: None

Ph : +974 4406 4444
Fax : +974 4406 4422

Hamad Port Project
P.O Box: 28333
Doha - QATAR



Sub-Contractor Approval Request

Document No. : PWA-RPD-CON-FM-0302

Revision No. : 04

Issue Date : 15 Jan. 2019

Project Details

Document No.: IA2018-C031G/SCAR/027

Rev. No: 00

Date: 16/09/2019

Project No.: IA2018/C031G (C2018/114)

Area: DOHA, QATAR

Project Title: Umm Al Dome Improvement

Contractor: M/s.Petroserv limited / Strukton construction & Trading (JV)

GEC: ITALCONSULT



We request the approval of the following Sub-Contractor to undertake the section of work identified in this submittal

Part 1 - Particulars of the Sub-Contractor

Company Name: M/s. CTL GROUP QATAR

Address 1: STREET 41 AT KASSARAT ST. INDUSTRIAL AREA, PO BOX NO.14212, DOHA QATAR

Address 2: N/A

Address 3: N/A

Address 4: N/A

e-mail: N/A

Telephone No: +974 44950200

Fax No: +974 44951200



Confirm that the following pre-qualification documents are enclosed (tick to conform)

- ☒ Covering Letters from the Contractor addressed to the Supervision Consultant proposing the Sub-Contractor
- ☒ Commercial Register
- ☒ Compliance Statement with Qatar standard specification requirements (QCS 2014 or latest updates)
- ☒ International quality certification (BS EN ISO and / or others) BSI Kite mark,
- ☒ Company Quality Manual / Inspecting and Testing Plans
- ☒ Summary of Experience
- ☒ Financial Status
- ☒ Details of work being undertaken in the Region
- ☒ Company Staff details / Management Structure
- ☒ Equipment owned by the Company
- ☐ Sub-Contractor included In Tender Submission
- ☒ Sub-Contractor is a GCC Company



Sub-Contractor Approval Request

Document No. : PWA-RPD-CON-FM-0302

Revision No. : 04

Issue Date : 15 Jan. 2019

Part 2 - Product Details

Section of Subcontracted Work: **Third Party Technical Laboratories for Testing of the Materials**

Discipline: **Material Testing & Geotechnical Engineering services**

Bill of Quantities items to be supplied by the Subcontractor

(a)	Material Testing & Geotechnical Engineering services	BoQ Ref. : G1(P1)
(b)		BoQ Ref. :
(c)		BoQ Ref. :
(d)		BoQ Ref. :

Part 4/3 - Contractor Authorized Representative

Name: **SALVADOR GERMAN**

Position: **PROJECT MANAGER**

Signature:

Date: **16.09.2019**

Part 5 - **GEC** Recommendation Comments

To Contractor: **M/s. CTL Group - Qatar is included in Ashghal approved third party laboratory. m.a. 2/10/19**

Action Code A : ☒ Can be recommended for Approval without any comments

Action Code B : ☐ Can be recommended for Approval subject to corrections and/or comments attached

Action Code C : ☐ Revised & resubmitted in accordance with the completion of corrections shown and/or comments attached

Action Code D : ☐ Rejected

**APPROVED
ITALCONSULT**

Name :

Position:

Signature :

Date:

ITALCONSULT
Resident Engineer

Part 6 - **RPD Verification** (if required)

Name :

Position:

Signature :

Date:

Project Logo: 	Project Name : QATAR INDUSTRIAL MANUFACTURING COMPANY (QIMC) TOWER 4B+G+M+POD+38F		
	Project No. : P-276	Form No. : F03-R0, (AEB Ref: P07-F14)	
Client: 	Project Manager: 	Consultant: 	Contractor: 

DOCUMENT SUBMITTAL FORM

Submittal Type : <input type="checkbox"/> - Technical Submittals <input type="checkbox"/> - Procedures <input type="checkbox"/> - Others <input type="checkbox"/> - PQP / ITP <input type="checkbox"/> - Supplier Approval <input type="checkbox"/> - Test Reports <input checked="" type="checkbox"/> - Subcon Approval <input type="checkbox"/> - Design Data <input type="checkbox"/> - Method Statement <input type="checkbox"/> - Certificates <input type="checkbox"/> - Schedule / Reports		Submittal No. : QIMC-RED-PD-00GE-0006 Rev.: 0 Submittal Date : 19-Dec-18 Expected Response Date : No. of Sets: a.) Hardcopy 2 Sets Size: A4 b.) E-copy 2 Type: CD
---	--	--

Discipline:

☒ - Civil / Structural ☐ - Mechanical ☐ - Electrical ☐ - Architect / Interior Design ☐ - Others

Description of Documents:

PREQUALIFICATION DOCUMENT OF M/S CTL GROUP QATAR

(Independent Geotechnical & Material Testing Laboratory Subcontractor)

RECEIVED
23 DEC 2018



Submitted for:

☒ - Review and Approval ☐ - Re-Submitted for Review & Approval ☐ - For Information & Records

Prepared by:

CONNIE JOY CORTES

Name / Sign / Date

Reviewed by: (Contractors Coordinator/ TM/ QA/QC or HSE)

ENG. WALEED GHARIB

Name / Sign / Date

Recommended for Submission by: (Contractors PM)

ENGR. OTHMAN MAHMOUD ABU HEJLEH

Name / Sign / Date

COMMENTS BY THE CONSULTANT (Use Review Comment Sheet When Necessary)

Structurally, no objection to the prequalification documents. However,
 Contractor shall stick to one Lab from the approved
 Labs for each activity.
 * Subcontractor shall comply with project specs & approved
 ITP & QCS 2014 requirements.
 * Calibration Certificate for all equipments shall be up to date
 During the whole project construction time.

Submittal Status:

☐ - Approved ☒ - Approved as Noted ☐ - Revise and Resubmit ☐ - Rejected

Reviewed by:

AEB-RE or Sr. Engineer

Designation

Date

Approved by:

AEB - PM

Designation

Date

Client Rep. Endorsement (when required):

Name / Signature

Designation

Date

Note: Approval or Comments made to this submittal does not relieve the Contractor from their responsibilities. The assessment is to verify the general compliance and compliance of the submittals to the contract and specification requirements.

RECEIVED
23 DEC 2018

Time: **1:30 pm**
 Signature: **[Signature]**

PROJECT: PROJECT ALAR, HOTEL DEVELOPMENT	CLIENT: SHAKER CONSULTANCY COMPANY THORNHAM 27 FEB 2019	Date: 27-02-2019	Nº: PAL-MAN-ZALL-ALL-PD-QL-0003 REV.0
PROJECT MANAGEMENT: Turner & Townsend	CONSULTANT: SHAKER CONSULTANCY COMPANY	CONTRACTOR: MAN ENTERPRISE QATAR	
DOCUMENT SUBMITTAL			

Type of Submittal:

Document <input checked="" type="checkbox"/>	Sketch/Drawing <input type="checkbox"/>	Test Result <input type="checkbox"/>	Other <input type="checkbox"/>
Other (Specify):			

Subject: PREQUALIFICATION DOCUMENTS

Description of Document Submitted:

Prequalification documents of M/s CTL Group Qatar for Third Party Material testing Laboratory

Contractor's Representative: Andre Korkomaz

(Signature)

Date: 27-February-2019

COMMENTS:

please refer to the comments in the attached CRS.

Status:	A: Approved <input type="checkbox"/>	B: Approved As Noted <input checked="" type="checkbox"/>	C: Revise and Resubmit <input type="checkbox"/>	D: Rejected <input type="checkbox"/>
----------------	---	---	--	---


Engineer: *(Signature)*

Date: 09-03-19.

Approval shall not relieve the Contractor of his liabilities under the Contract or constitute authorization of any change to the Contract Documents




Document Submittal
PAL-MAN-ZALL-ALL-PD-QL-0003 REV.0

	<h2>Document Review Comment Sheet</h2>		Document No. :	PWA-RPD-QM-FM-028
			Revision No. :	04
			Issue Date :	20 Jan. 2019

GEC/ Contractor:		Area/ Contract No.:		Contract Title:	
Italconsult / Al Waha Contracting & Trading Co WLL		DW082 / IA 2017 C023 G / PWA/GTC/049/2017		Al Saliya and Al Hamm Street Surface Water	
Document No.:		Document Title:		Transmittal No.:	
DW082-ALW-CON-SAR-00017 Rev 00		PREQUALIFICATION CTL GROUP QATAR (THIRD PARTY MATERIAL LABORATORY TESTING OF ULTRA CRETE)		DW082-ITAL-ALW-TML-00392	
				Date of Submittal:	
				04 April 2019	

Comment No.	Section Reference	Reviewer	Position	Comment	Category (R/S)	Response	Responder	Position
1	General	SS	Material Inspector	Material testing shall be carried out as per Ashghal approved list.	Response required			
2	Calibration	SS	Material Inspector	Valid calibration certificate of all testing equipment's shall be attached.	Response required			
3	General	NA	Site Engineer	Contractor ensures that work carried out shall be strict accordance with contract and QCS requirements	Note			
4	General	NA	Site Engineer	Contractor shall update record of all test reports, summaries and submit for review/approval and record shall be maintained.	Response required			
5	General	NA	Site Engineer	Previous project approvals shall be enclosed.	Note			
6	General	NA	Site Engineer	CV and qualification of persons shall be submitted as per organization chart.	Response required			
7	Testing locations	NA	Site Engineer	Test reports shall include coordinates of sampling and testing	Note			

	Document Review Comment Sheet		Document No. :	PWA-RPD-QM-FM-028
			Revision No. :	04
			Issue Date :	20 Jan. 2019

				locations as per Ashghal technical circular no (8)2019.			
8	General	NA	Site Engineer	<p><i>15 gwy</i></p> <p>GEC recommended to select one laboratory which is already approved due to logistics purpose.</p>	Note		

☐ A - Approved As Submitted
 ☒ B - Approved with Comments
 ☐ C - Revised and Resubmit
 ☐ D - Reject

Abbreviation:

R - Requirement
 S - Suggestion





IAS Certification



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

CONSTRUCTION TECHNOLOGY LABORATORIES GROUP WLL

STREET 125 AT KASSARAT ST. INDUSTRIAL AREA
DOHA, STATE OF QATAR

Testing Laboratory TL-651

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date May 1, 2025
Effective Date October 25, 2022



A handwritten signature in black ink, reading "Raj Nathan".

President

Visit www.iasonline.org for current accreditation information.

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CONSTRUCTION TECHNOLOGY LABORATORIES GROUP WLL

www.ctlgroupqatar.com

Contact Name Mahmoud Al-Shboul

Contact Phone +974-30337573

Accredited to ISO/IEC 17025:2017

Effective Date October 25, 2022

Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	AASHTO T304	Standard Method of Test for Uncompacted Void Content of Fine Aggregate	CTL Lab
Aggregates	ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	CTL Lab
Aggregates	ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	CTL Lab
Aggregates	ASTM C117	Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	CTL Lab
Aggregates	ASTM C123	Standard Test Method for Lightweight Particles in Aggregate	CTL Lab
Aggregates	ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	CTL Lab
Aggregates	ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	CTL Lab
Aggregates	ASTM C 131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	CTL Lab
Aggregates	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	CTL Lab
Aggregates	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	CTL Lab
Aggregates	ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	CTL Lab
Aggregates	ASTM C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying	CTL Lab
Aggregates	ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size	CTL Lab
Aggregates	ASTM C1252	Uncompacted Void Content of Fine Aggregate	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	ASTM D546	Standard Test Method for Sieve Analysis of Mineral Filler for Asphalt Paving Mixtures	CTL Lab
Aggregates	ASTM D4791	Flat and Elongated Particles	CTL Lab
Aggregates	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	CTL Lab
Aggregates	BS 812-2, 5.3	Testing aggregates. Methods for determination of density and Water Absorption (All larger than 10mm aggregate)	CTL Lab
Aggregates	BS 812-2, 5.4	Testing aggregates. Methods for determination of density and Water Absorption (Method for aggregates between 40 mm and 5 mm)	CTL Lab
Aggregates	BS 812-2, 5.5	Testing aggregates. Methods for determination of density and Water Absorption (Method for aggregates 10 mm nominal size and smaller)	CTL Lab
Aggregates	BS 812-102:1989	Sampling of Aggregates (From Heaps)	CTL Lab
Aggregates	BS 812-103.1:1985, 7.2	Methods for determination of particle size distribution — Section 103.1 Sieve tests - Washing and sieving method	CTL Lab
Aggregates	BS 812-103.1:1985, 7.3	Methods for determination of particle size distribution — Section 103.1 Sieve tests - Dry sieving method	CTL Lab
Aggregates	BS 812-105.1:1989	Testing aggregates. Methods for determination of particle shape. Flakiness index	CTL Lab
Aggregates	BS 812-105.2:1990	Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate	CTL Lab
Aggregates	BS 812-109, Section 6	Methods for determination of moisture content Definitive, oven-drying method	CTL Lab
Aggregates	BS 812-110	Methods for determination of aggregate crushing value (ACV)	CTL Lab
Aggregates	BS 812-111	Methods for determination of ten per cent fines value (TFV)	CTL Lab
Aggregates	BS 812-112	Methods for determination of aggregate impact value (AIV)	CTL Lab
Aggregates	BS 812-117	Testing aggregates. Method for determination of water-soluble chloride salts	CTL Lab
Aggregates	BS 812-117, App. C	Testing aggregates. Method for determination of Acid-soluble chloride salts	CTL Lab
Aggregates	BS 812-118	Testing aggregates. Methods for determination of sulphate content	CTL Lab
Aggregates	BS EN 932-1	Tests for general properties of aggregates. Methods for sampling	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method	CTL Lab
Aggregates	BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method Material finer than 0.063mm	CTL Lab
Aggregates	BS EN 933-3	Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index	CTL Lab
Aggregates	BS EN 933-4	Tests for geometrical properties of aggregates. Determination of particle shape. Shape index	CTL Lab
Aggregates	BS EN 933-7	Tests for geometrical properties of aggregates. Determination of shell content. Percentage of shells in coarse aggregates	CTL Lab
Aggregates	BS EN 933-9:2009 +A1:2013	Tests for Geometrical Properties of Aggregates Part 9: Assessment of fines - Methylene Blue Test	CTL Lab
Aggregates	BS EN 1097-2 Cl.5	Determination of Los Angeles Abrasion	CTL Lab
Aggregates	BS EN 1097-6	Tests for mechanical and physical properties of aggregates. Determination of particle density and water absorption	CTL Lab
Aggregates	BS EN 1367-2	Determination of Magnesium Sulphate Soundness	CTL Lab
Aggregates	BS EN 1367-4	Determination of Drying Shrinkage	CTL Lab
Aggregates	BS EN 1744-1 2009, Section 12	Tests for chemical properties of aggregates. Chemical analysis- Determination of acid soluble sulfate in aggregate	CTL Lab
Aggregates	BS EN 1744-5	Tests for chemical properties of aggregates -Part 5: Determination of acid soluble chloride salts	CTL Lab
Cementitious Materials	ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)	CTL Lab
Cementitious Materials	ASTM C183	Standard Practice for Sampling and the Amount of Testing of Hydraulic Cement	CTL Lab
Cementitious Materials	ASTM C187	Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	CTL Lab
Cementitious Materials	ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle	CTL Lab
Cementitious Materials	ASTM C311, Parts 10, 11, 12, 13, 14	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete. Part 10 – Sulfate by C114 Part 17.1.2, Parts 11 & 12 – Moisture Content, Parts 13 & 14 – Loss on Ignition	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Cementitious Materials	ASTM C349	Compressive Strength of Cement Mortars	CTL Lab
Cementitious Materials	ASTM C989	Standard Specification for Slag Cement for Use in Concrete and Mortars	CTL Lab
Cementitious Materials	ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures-Pozzolan Activity Test	CTL Lab
Cementitious Materials	BS EN 196-1	Methods of testing cement. Determination of strength	CTL Lab
Cementitious Materials	BS EN 196-2, Cl 4.4.1	Method of testing cement Part 2: Chemical analysis of cement-Determination of loss on ignition	CTL Lab
Cementitious Materials	BS EN 196-2 Cl 4.4.2	Method of testing cement Part 2: Chemical analysis of cement- Determination of Sulfate	CTL Lab
Cementitious Materials	BS EN 196-2, Cl 4.4.3	Method of testing cement Part 2: Determination of Residue Insoluble in Hydrochloric Acid and Sodium Carbonate	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.2	Method of testing cement. Chemical analysis of cement. Impure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.6	Method of testing cement. Chemical analysis of cement. Pure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.10	Method of testing cement. Chemical analysis of cement. Ferric Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.11	Method of testing cement. Chemical analysis of cement. Aluminum Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.12	Method of testing cement. Chemical analysis of cement. Calcium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.13	Method of testing cement. Chemical analysis of cement. Magnesium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2 Cl. 4.5.19	Method of testing cement. Chemical analysis of cement. Determination of Alkaly	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.2&3	Method of testing cement. Chemical analysis of cement. Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.6	Method of testing cement. Chemical analysis of cement. Pure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.10	Method of testing cement. Chemical analysis of cement. Ferric Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.11	Method of testing cement. Chemical analysis of cement. Aluminum Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-25, Cl. 13.14	Method of testing cement. Chemical analysis of cement. Calcium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.15	Method of testing cement. Chemical analysis of cement. Magnesium Oxide Content.	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Cementitious Materials	BS EN 196-2, Cl. 13.9	Method of testing cement. Chemical analysis of cement. Total Silica Content	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 5	Methods of testing cement. Determination of setting times and soundness. Cement Standard Consistency	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 6	Methods of testing cement. Determination of setting times and soundness. Determination of Cement Setting Time	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 7.0	Methods of testing cement. Determination of setting times and soundness. Determination of Soundness of Cement	CTL Lab
Cementitious Materials	BS EN 196-5	Methods of testing cement. Pozzolanicity test for pozzolanic cement	CTL Lab
Cementitious Materials	BS EN 196-6	Fineness Test of Cement	CTL Lab
Cementitious Materials	BS EN 196-7	Methods of testing cement. Methods of taking and preparing samples of cement.	CTL Lab
Cementitious Materials	BS EN 196-21:1992, Cl 4	Methods of testing cement. Determination of the chloride, carbon dioxide and alkali content of cement Determination of Chloride Content in cement	CTL Lab
Concrete	ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field	CTL Lab
Concrete	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	CTL Lab
Concrete	ASTM C42	Obtaining and Testing of Drilled Cores	CTL Lab
Concrete	ASTM C109	Compressive Strength of Hydraulic Cement Mortars	CTL Lab
Concrete	ASTM C138	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	CTL Lab
Concrete	ASTM C143	Standard Test Method for Slump of Hydraulic cement Concrete	CTL Lab
Concrete	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete	CTL Lab
Concrete	ASTM C173	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method	CTL Lab
Concrete	ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	CTL Lab
Concrete	ASTM C232	Bleeding of Concrete	CTL Lab
Concrete	ASTM C305	Standard Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	CTL Lab
Concrete	ASTM C403	Time of Setting of Concrete Mixtures by Penetration Resistance	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Concrete	ASTM C494	Chemical Admixtures for concrete	CTL Lab
Concrete	ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens	CTL Lab
Concrete	ASTM C900	Pullout Strength of Hardened Concrete	CTL Lab
Concrete	ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	CTL Lab
Concrete	ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for use in Construction and Criteria for testing agency evaluation	CTL Lab
Concrete	ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	CTL Lab
Concrete	ASTM C1231	Standard Practice for use of unbonded caps in determination of compressive strength of hardened concrete cylinders	CTL Lab
Concrete	ASTM C1385	Sampling of Shotcrete	CTL Lab
Concrete	ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete	CTL Lab
Concrete	ASTM C1621	Passing Ability for self-Consolidating Concrete by J-Ring	CTL Lab
Concrete	ASTM C1688	Density Determination of Pervious Concrete	CTL Lab
Concrete	BS 1881-122	Water Absorption Test	CTL Lab
Concrete	BS 1881-124, sec 12.1	Acid soluble chloride in concrete	CTL Lab
Concrete	BS 1881-124, sec 12.2	Acid soluble sulfate in concrete	CTL Lab
Concrete	BS 1881 Part 208	Initial Surface Absorption of conditioned (oven dry, non oven dry & site) concrete sample (ISAT)	CTL Lab
Concrete	BS EN 445	Bleeding Test Of grout	CTL Lab
Concrete	BS EN 445	Compressive Strength of grout	CTL Lab
Concrete	BS EN 445	Fluid Density Of grout (Cone Method)	CTL Lab
Concrete	BS EN 445	Fresh Density Of grout	CTL Lab
Concrete	BS EN 445	Volume Change, Vertical Shrinkage of grout	CTL Lab
Concrete	BS EN 12350-1	Testing fresh concrete - Part 1: Sampling	CTL Lab
Concrete	BS EN 12350-2	Testing fresh concrete - Part 2: Slump-test	CTL Lab
Concrete	BS EN 12350-5	Testing fresh concrete - Part 5: Flow table test	CTL Lab
Concrete	BS EN 12350-6	Testing Fresh Concrete: Density	CTL Lab
Concrete	BS EN 12350-7	Testing Fresh Concrete: Air Content by Pressure Methods	CTL Lab
Concrete	BS EN 12350-9	V-Funnel test for Self-Compacting Concrete	CTL Lab
Concrete	BS EN 12350-10	L-Box test for Self-Compacting Concrete	CTL Lab
Concrete	BS EN 12390-1	Shape and Dimensions of Specimen	CTL Lab
Concrete	BS EN 12390-2	Testing hardened concrete - Part 2: Making and curing specimens for strength tests	CTL Lab
Concrete	BS EN 12390-3	Testing hardened concrete - Part 3: Compressive strength of test specimens	CTL Lab
Concrete	BS EN 12390-7	Density of Hardened Concrete	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Concrete	BS EN 12390-8	Water Penetration Test	CTL Lab
Concrete	BS EN 12504-1	Obtaining and Testing of Drilled Cores	CTL Lab
Concrete	NT Build 492	Chloride Penetration Test	CTL Lab
Environmental	APHA/AWWA 2130 B, 22nd Edition 2012, 23rd Edition 2017	Turbidity	CTL Lab
Environmental	APHA/AWWA 2320-B	Total Alkalinity	CTL Lab
Environmental	APHA/AWWA 2320-B	Phenolphthalein Alkalinity	CTL Lab
Environmental	APHA/AWWA 2320-B	Bicarbonate	CTL Lab
Environmental	APHA/AWWA 2320-B	Carbonate	CTL Lab
Environmental	APHA/AWWA 2340-C, 22nd Edition 2012, 23rd Edition 2017	Total Hardness	CTL Lab
Environmental	APHA/AWWA 2510-B	Electrical Conductivity	CTL Lab
Environmental	APHA/AWWA- 2540 B, 22nd Edition 2012, 23rd Edition 2017	Total solids	CTL Lab
Environmental	APHA/AWWA 2540-C, 22nd Edition 2012, 23rd Edition 2017	Total Dissolved Solids (TDS)	CTL Lab
Environmental	APHA/AWWA 2540-C, 22nd Edition 2012, 23rd Edition 2017	Total Volatile Dissolved Solids (TVDS)	CTL Lab
Environmental	APHA/AWWA 2540-D, 22nd Edition 2012, 23rd Edition 2017	Total Suspended solids	CTL Lab
Environmental	APHA/AWWA 2540-D, 22nd Edition 2012, 23rd Edition 2017	Total Volatile Suspended solids	CTL Lab
Environmental	APHA/AWWA 2540-F	Settleable Solids	CTL Lab
Environmental	APHA/AWWA 2540 G	Total, Fixed Solids in Solids and Semisolids samples	CTL Lab
Environmental	APHA/AWWA 2540 G	Volatile Solids in Solids and Semisolids samples	CTL Lab
Environmental	APHA/AWWA 3500-Ca B, 22nd Edition 2012, 23rd Edition 2017	Calcium	CTL Lab
Environmental	APHA 3500-CrB, 22nd Edition 2012, 23rd Edition 2017	Chromium (vi)	CTL Lab
Environmental	APHA/AWWA 3500 Mg, 22nd Edition 2012, 23rd Edition 2017	Magnesium Concentration by Calculation	CTL Lab
Environmental	APHA/AWWA 4500-Cl, 22nd Edition 2012, 23rd Edition 2017	Free Chlorine	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Environmental	APHA/AWWA 4500-Cl, 22nd Edition 2012, 23rd Edition 2017	Total Chlorine	CTL Lab
Environmental	APHA/AWWA 4500-Cl B, 22nd Edition 2012, 23rd Edition 2017	Chloride	CTL Lab
Environmental	APHA/AWWA 4500 F, 22nd Edition 2012, 23rd Edition 2017	Fluoride	CTL Lab
Environmental	APHA/AWWA 4500 H+ B	pH	CTL Lab
Environmental	APHA/AWWA 4500 NO ₂ B, 22nd Edition 2012, 23rd Edition 2017	Nitrite Nitrogen	CTL Lab
Environmental	APHA/AWWA 4500- NO ₃ D, 22nd Edition 2012, 23rd Edition 2017	Nitrate Nitrogen	CTL Lab
Environmental	APHA/AWWA 4500-O G, 22nd Edition 2012, 23rd Edition 2017	Dissolved Oxygen	CTL Lab
Environmental	APHA/AWWA 4500-P, 22nd Edition 2012, 23rd Edition 2017	Phosphorous (total)	CTL Lab
Environmental	APHA/AWWA 4500- SO ₄ , 22nd Edition 2012, 23rd Edition 2017	Sulphate	CTL Lab
Environmental	APHA/AWWA 4500--S2 E or F	Sulphide	CTL Lab
Environmental	APHA/AWWA 5210B, 22nd Edition 2012.Test- APHA/AWWA 4500- OC, 23rd Edition 2017	Biochemical Oxygen Demand (BOD)	CTL Lab
Environmental	APHA/AWWA 5520 B	Oil & grease	CTL Lab
Environmental	APHA/AWWA 5220 D, 22nd Edition 2012, 23rd Edition 2017	Chemical oxygen Demand	CTL Lab
Environmental	APHA/AWWA 5520 D, 22nd Edition 2012, 23rd Edition 2017	Oil & grease	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd Edition2017, IDEXX method	E-Coli	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd Edition2017, IDEXX method	Fecal Coliform	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd	Total Coliforms	CTL Lab

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
	Edition 2017, IDEXX method		
Geotechnical	ASTM D1196	Plate Load Test	CTL Lab
Geotechnical	BS 1377 Part 9-Sec. 4.1	Plate Load Test	CTL Lab
Masonry	ASTM C140, CI 8	Water Absorption for Interlocks	CTL Lab
Masonry	BS 6073 Part 1	Compressive Strength of Concrete Masonry Blocks	CTL Lab
Masonry	BS 6717:2001, Annex B	Measurement of Dimensions of Paving Blocks	CTL Lab
Masonry	BS 6717:2001, Annex E	Tensile splitting Strength of Paving Blocks	CTL Lab
Masonry	BS EN 771 Part 1 cl 5.2.4 & 5.3.4	Compressive Strength of Clay Masonry Blocks	CTL Lab
Masonry	EN 771-3	Water Absorption for Masonry Blocks	CTL Lab
Masonry	BS EN 772-1	Compressive Strength of Concrete Masonry Blocks	CTL Lab
Masonry	EN 772-11	Determination of water absorption of aggregate concrete	CTL Lab
Masonry	BS EN 1338 Annex E	Water Absorption of Paving Blocks	CTL Lab
Masonry	BS EN 1338 Annex F	Tensile Strength of Paving Blocks	CTL Lab
Masonry	BS EN 1339 Appendix E	Water Absorption for Concrete Paving Flags/Slabs	CTL Lab
Masonry	BS EN 1339 Appendix F	Transverse Strength of Concrete Paving Flags/Slabs	CTL Lab
Masonry	BS EN 1340 Annex C	Measurement of Dimensions of Kerbs	CTL Lab
Masonry	BS EN 1340 Annex E	Water Absorption for Kerbs	CTL Lab
Masonry	BS EN 1340 Annex F	Transverse Strength of Kerbs	CTL Lab
NDT	ASTM C805	Rebound Hammer Test for Concrete	CTL Lab
NDT	ASTM D4541	Coating Pull off test	CTL Lab
NDT	BS 1881-204	Concrete Cover Determination	CTL Lab
NDT	BS EN 12504-4	Ultrasonic Pulse Velocity	CTL Lab
NDT	Gauge manual	Crack width gauge	CTL Lab
Road and Pavement Tests	ASTM D5	Standard test method of Penetration of Bituminous Materials	CTL Lab
Road and Pavement Tests	ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2172	Standard Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Road and Pavement Tests	ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors	CTL Lab
Road and Pavement Tests	ASTM D3549	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	CTL Lab
Road and Pavement Tests	ASTM D5361	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing	CTL Lab
Road and Pavement Tests	ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate ¹	CTL Lab
Road and Pavement Tests	ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	CTL Lab
Road and Pavement Tests	ASTM D6927	Standard Test Method for Marshall Stability and Flow of Bituminous Mixtures	CTL Lab
Road and Pavement Tests	BS EN 1426	Bitumen and bituminous binders. Determination of needle penetration	CTL Lab
Road and Pavement Tests	BS EN 12697-2	Bituminous mixtures. Test methods. Determination of particle size distribution	CTL Lab
Road and Pavement Tests	BS EN 12697-5	Bituminous mixtures - test methods. Determination of the maximum density	CTL Lab
Road and Pavement Tests	BS EN 12697-6	Bituminous mixtures. Test methods for hot mix asphalt. Determination of bulk density of bituminous specimens	CTL Lab
Road and Pavement Tests	BS EN 12697-8	Bituminous mixtures. Test methods. Determination of void characteristics of bituminous specimens	CTL Lab
Road and Pavement Tests	BS EN 12697-13	Bituminous mixtures. Test methods. Temperature measurement	CTL Lab
Road and Pavement Tests	BS EN 12697-27	Bituminous mixtures. Test methods. Sampling	CTL Lab
Road and Pavement Tests	BS EN 12697-28	Bituminous Mixtures - Test Methods for Hot Mix Asphalt - Part 28: Preparation of Samples for Determining Binder Content, Water Content and Grading	CTL Lab
Road and Pavement Tests	BS EN 12697-29	Bituminous mixtures - Test methods for hot mix asphalt - Part 29: Determination of the dimensions of a bituminous specimen	CTL Lab
Road and Pavement Tests	BS EN 12697-36	Bituminous mixtures Test methods for hot mix asphalt Part 36: Determination of the thickness of a bituminous pavement	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Soil	ASTM C702	Reducing Samples to Testing Size	CTL Lab
Soil	ASTM D854	Standard Test Method for Specific Gravity of Soil Solids by Water Pycnometer	CTL Lab
Soil	ASTM D1140	Standard test method for determining the amount of Materials Finer than No. 0.075mm (No.200) Sieve in soil by washing	CTL Lab
Soil	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	CTL Lab
Soil	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort	CTL Lab
Soil	ASTM D1883	CBR of Lab Compacted Soils	CTL Lab
Soil	ASTM D2216	Determination of Moisture Content	CTL Lab
Soil	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	CTL Lab
Soil	ASTM D3740	Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	CTL Lab
Soil	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	CTL Lab
Soil	ASTM D4429	In Place California Bearing Ratio (CBR)	CTL Lab
Soil	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles ¹	CTL Lab
Soil	ASTM D4944	In Place Moisture Content (Calcium Carbide Tester)	CTL Lab
Soil	ASTM D6913	Particle Size Distribution	CTL Lab
Soil	ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	CTL Lab
Soil	BS 1377-2: Sec. 3.2	Determination of Moisture Content (Oven Drying)	CTL Lab
Soil	BS 1377-2: Sec. 4.3	Determination of Liquid Limit (Cone Penetrometer)	CTL Lab
Soil	BS 1377-2: Sec. 4.5	Determination of Liquid Limit (Casagrande method)	CTL Lab
Soil	BS 1377-2 sec 5.0	Determination of Plastic Limit & Plasticity index	CTL Lab
Soil	BS 1377-2 sec 9.2	Determination of Particle size distribution (wet sieving method)	CTL Lab
Soil	BS 1377-2: Sec. 9.3	Particle Size Distribution (Dry Sieving Method)	CTL Lab
Soil	BS 1377-3: Sec. 4	Determination of Organic Matter Content	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Soil	BS 1377-3:1990 Sec. 5.2	Determination of Acid Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3:1990 Sec. 5.3/5.5	Determination of Water Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 7.3/5.5	Determination of Acid Soluble Chloride Content	CTL Lab
Soil	BS 1377-3:2018 Sec. 7.3 & 7.6	Determination of Water Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 7.9 & 7.6	Determination of Acid Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 9.2	Determination of Water Soluble Chloride Content	CTL Lab
Soil	BS 1377-3:1990 Sec. 7.2	Determination of Water Soluble Chloride Content	CTL Lab
Soil	BS 1377-4: Sec. 3	Determination of dry density/moisture	CTL Lab
Soil	BS 1377-4: Sec. 7	Determination of California Bearing Ratio (CBR)	CTL Lab
Soil	BS 1377-9: Sec. 2.1	In-Situ Density Test (Sand Replacement Method-Small Pouring Cylinder)	CTL Lab
Soil	BS 1377-9: Sec. 2.2	In-Situ Density Test (Sand replacement method suitable for fine-, medium- and coarse-grained soils (large pouring cylinder method))	CTL Lab
Soil	BS EN 933-8	Sand Equivalent Value	CTL Lab
Steel	ASTM A370	Tensile Strength Test of steel	CTL Lab
Steel	ASTM A931	Tension Testing of Wire Ropes and strand	CTL Lab
Steel	ASTM A1061	Testing multi wire steel prestressing strand	CTL Lab
Steel	ASTM E415	Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry	CTL Lab
Steel	ASTM E1086	Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry	CTL Lab
Steel	BS 4449 Sec. 7.2.5	Bend Test & Rebend Test	CTL Lab
Steel	BS EN 10002-1, BS EN 6892-1 CL 11, 12, 20, 21	Tensile Strength Test of steel	CTL Lab
Steel	BSEN ISO 15630-3	Tensile test of high tensile steel prestressing strand	CTL Lab
Steel	BS EN ISO 15630-1 Cl 5	Tensile Strength Test of Reinforcement bars, wire rods and wires	CTL Lab
Steel	BS EN ISO 15630-1 Cl 6 & 7	Bend & Rebend Test	CTL Lab

An abstract geometric pattern consisting of white lines and dots on a dark gray background. The pattern is composed of numerous interconnected triangles and polygons, creating a complex, web-like structure. The lines are thin and white, while the dots are small and white, marking the vertices of the geometric shapes. The pattern is more dense on the left side of the image and tapers off towards the right.

Certification From
Governmental
Departments

QATAR CHAMBER OF COMMERCE & INDUSTRY

Tel : 4455 9111 | Fax: 4466 1693 - 4466 1697

P. O .Box : 402 | Doha - Qatar

E-mail : info@qcci.org | www.qatarchamber.com



غرفة قطر
QATAR CHAMBER

غرفة تجارة وصناعة قطر

هاتف : ٤٤٥٥ ٩١١١ فاكس : ٤٤٦٦ ١٦٩٣ - ٤٤٦٦ ١٦٩٧

ص.ب : ٤٠٢ ، الدوحة ، قطر

بريد إلكتروني : info@qcci.org | www.qatarchamber.com

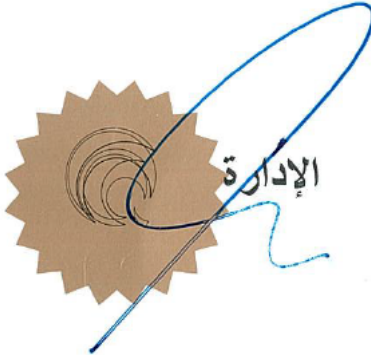
شهادة عضوية MEMBERSHIP CERTIFICATE

عام : 2022

تشهد غرفة تجارة وصناعة قطر

بأن السادة كونستركشن تكنولوجي لابروتوريز جروب

عضو منتسب لدى الغرفة برقم عضوية 02/05803 ولديهم عدد (0) فرعاً



التاريخ : 2022/09/28

الرجاء النظر خلف الشهادة

ملاحظة : هذه الشهادة سارية المفعول حتى 2023/11/03

أى كشط أو تعديل بهذه الشهادة تعتبر لا غية

This Certificate is issued to:

CONSTRUCTION TECHNOLOGY LABORATORIES GROUP

Commercial Registration Number: 69008 | Address: AL KASSARAT STREET STREE 41

ICV Certification Details

Certificate Number	Certifier	Financial Year
10001763	Kreston SVP Chartered Accountants	31 December 2021
Issue Date	Expiry Date	Download Date
19 June 2023	19 June 2024	19 June 2023

ICV Score & Contribution

● Valid



This certificate is a refreshed version of the initial certificate issued on 19 June 2023. The refresh was conducted by Tawteen through the ICV Digital Portal. This refreshed certificate must be attached and read in conjunction with initial issued certificate signed by the Certifier and Supplier.

Refresh Date
18 Jun 2023



- Notes**
- 1) This ICV Certificate is an extraction from Kreston SVP Chartered Accountants's full ICV report dated 19/06/2023 and should be read in conjunction with the cover letter and factual findings report relevant to the ICV score in the full ICV report.
 - 2) This full ICV report is issued vide an engagement letter between Kreston SVP Chartered Accountants and CONSTRUCTION TECHNOLOGY LABORATORIES GROUP dated 19/06/2023. Kreston SVP Chartered Accountants does not accept or assume any liability, responsibility or duty of care for any use of or reliance on this document by anyone, other than the intended recipient to the extent agreed in the engagement letter.
 - 3) In the case any information included in the ICV Certificate requires further validation, contact should be made with Tawteen.

2023-06-18 : تاريخ الطباعة

AM 11:48 : وقت الطباعة

CAC23000616 : رقم الطلب



وزارة الداخلية
Ministry of Interior
دولة قطر • State of Qatar

وزارة الداخلية
الإدارة العامة للدفاع المدني
إدارة الوقاية

شهادة

نوع الشهادة : صلاحية نظام الوقاية ومكافحة الحريق (تجاري)

بيانات المنشأة

الاسم التجاري : كونستركشن تكنولوجي لابروتوريز جروب
رقم السجل التجاري : 69008
رقم قيد المنشأة : 14-9103-00
رقم الرخصة التجارية : 104641
مساحة : 940

بيانات صاحب الشهادة

الاسم : شادي يوسف سعيد
الرقم الشخصي : 28342200171
الجوال : 55891624
الهاتف الجوال : 40370130

تفاصيل العنوان

رقم المنطقة : 57
اسم الشارع : شارع 41
رقم قطعة الأرض :
رقم الشارع : 41
رقم المبنى : 224
رقم الوحدة :
رقم الشارع : 41

تفاصيل الشهادة

- يجب تنفيذ جميع أحكام قانون الدفاع المدني رقم (25) لسنة 2015 والالتزام التام به.
- يجب الحصول على موافقات الجهات المختصة للنشاط المراد مزاولته.

تاريخ انتهاء الشهادة : 2025-06-17

تاريخ اصدار الشهادة : 2023-06-18

الإدارة العامة للدفاع المدني
إدارة الوقاية

(1)

مدير إدارة الوقاية

الإدارة العامة للدفاع المدني



1/10/2017 2:36 PM



2017/0038099/9

هيئة الأشغال العامة
Public Works Authorityقطر تستحق الأفضل
Qatar Deserves The Best

مذكرة داخلية. Memorandum

From: إدارة الجودة والسلامة **من:**

To: شؤون الدعم الفني **إلى:**

Subject: قائمة أشغال للاختبارات المعتمدة لدى المختبرات المحايدة رقم (2017/10) **الموضوع:**

Date: 2017/10/01 **التاريخ:**

Dear All ,,,

تحية طيبة وبعد،

With reference to memorandum No. 28 - 2016 and regular assessment carried out by the Quality and Safety Dept. inspection team, you will find attached the updated list of approved tests, which used in Public Works Authority (Ashghal) projects. The basic amendments can be summarized as follows:

بناءً على التعميم رقم 28 لسنة 2016 وعلى التقييم الدوري لفريق مراقبة المختبرات التابع لإدارة الجودة والسلامة، نرفق لسيادتكم تحديث قائمة الاختبارات المعتمدة في مشاريع هيئة الأشغال العامة.

أهم التحديثات التي تمت هي:

1. Construction Technology Laboratories Group is added to the list based on their compliance with ISO 17025 and Ashghal quality requirements.

1- تمت إضافة مختبرات كونستركشن تكنولوجي إلى قائمة أشغال للاختبارات المعتمدة بعد التأكد من توافقهم مع اشتراطات ISO 17025 ومتطلبات هيئة الأشغال العامة للجودة.

The list of approved tests can be downloaded from Ashghal website: www.ashghal.gov.qa.

يمكنكم الاطلاع والحصول على نسخة من قائمة الاختبارات المعتمدة من خلال موقع الهيئة www.ashghal.gov.qa

For further information, please contact Quality and Safety Dept. through:

لمزيد من المعلومات يمكنكم الاتصال بإدارة الجودة والسلامة على:

Tel: 44950200 - Fax: 44951200

ت: 44950200 فاكس: 44951200

خالد محمد العمادي

Quality & Safety Department Manager



REGISTRATION CERTIFICATE

REGISTRATION CERTIFICATE

شهادة تسجيل مختبر خاص

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

No: **RL001 -19**

Date of Issue: 18/07/2023 تاريخ اصدار الشهادة:
Date of Expiry : 17/07/2024 الصلاحية حتى:
Lab Name: كونسركشن تكنولوجي لابورتوريز جروب
Construction Technology
Laboratories Group WLL اسم المختبر:
Address: منطقة ٥٧، شارع ١٢٥، مبنى ٢٦٣،
المنطقة الصناعية، ص.ب: ١٤٢١٢، الدوحة-قطر
Zone 57, Street 125, Building 263,
Industrial Area, P.O.BOX: 14212, العنوان:
Doha-Qatar
CR No: 69008 رقم السجل التجاري :
Activity: Testing (Material) النشاط:
Scope of Registration: Attached Scope of accreditation No: TL-651 مرفق مجال الاعتماد
شهادة رقم: مجال التسجيل:

Notes:

1. QS has no any responsibility for poor performance by this lab during the validity period.
2. 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

Recommended by:
Head of CC Section

Authorized by:
Director of Quality & Conformity Dept

Approved by:
PRESEDENT, QGOS



Thank You

This document contains data that shall not be disclosed, duplicated, or used - in whole or in part - for any purpose other than to evaluate this proposal. The data subject to this restriction are contained in all sheets of this document.