

PROFILE



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QUICK FACTS

BUSINESS NAME:

Consulting Engineers Associates 2005 Ltd (CEAL)

BUSINESS ADDRESS:

#54 Ramsaran Street, Chaguanas. Trinidad

Ottley Street, Scarborough, Tobago

TELEPHONE:

(868) 672-0023; (868) 672-0704

TELEFAX:

(868) 671-3570

EMAIL:

info@ceal2005.com

WEBSITE:

www.ceal2005.com

COMPANY TYPE:

Private Limited Liability

COMPANY SERVICES:

Planning, Management and Execution of Civil/Structural Designs, Electrical and Mechanical Engineering Designs, Construction Oversight and Contract Administration

BOARD OF DIRECTORS

Vaughn Lezama, Executive Chairman Dion Webber, Managing Director Erland Alleyne – Executive Director Richard Greenidge, Executive Director Mellissa A. Lezama-Roper, Director / Secretary BIR DATA: BIR Registration No. - 000131657-3

VAT DATA: VAT Registration No. 125487

NIS DATA: NIS Registration No. -126191

INSURERS / BONDING AGENT

Sagicor Inc.

Queen's Park West, Port of Spain, Trinidad

- Public Liability
- Workmen's Compensation
- Professional Indemnity Insurance
- Employees Pension Plan
- Employees Medical Plan

BANKERS:

First Citizens Bank Limited Market Street, Chaguanas, Trinidad

AUDITORS:

Carlos Moodoo & Co. Buen Intento Road, Princes Town, Trinidad

ATTORNEYS:

B.D. Hewitt & Company #76 Abercromby Street, Port of Spain, Trinidad

ASSOCIATES:

Architects - URBASYS Limited
MEP Engineers - Jain Consultants T&T Ltd
Jain Consultants Guyana Inc.

SOCIAL MEDIA:

Facebook; YouTube; Twitter; LinkedIn





INTRODUCTION

Consulting Engineers Associates 2005 Ltd. (CEAL) is a locally incorporated firm of Consulting Engineers and Project Managers which, with its predecessor company, has been operating in the twin-island republic of Trinidad and Tobago since 1993. CEAL was founded by Mr. Vaughn Lezama who has been in engineering practice since 1979 and who serves as the company's Chairman and Principal Engineer. Mr. Lezama is a Fellow and Past President of the Association of Professional Engineers of Trinidad and Tobago and a Registered Engineer with the Board of Engineering of Trinidad and Tobago.

CEAL's key personnel and Associates are qualified Engineers and Technicians with extensive and in-depth experience in the Planning, Management and Execution of Civil/Structural, Electrical and Mechanical Engineering Designs, Construction Oversight and Contract Administration. The company's team has been successfully involved in over 400 projects of varying degrees of complexity in Trinidad and Tobago and across the Eastern Caribbean, serving Clients that include Government agencies, local and overseas corporations and international funding agencies

Today, existing in a COVID-19 environment, CEAL has redefined its philosophy and its commitment to its employees and to health, safety and the environment while further heightening its clients' satisfaction/customer service and quality delivery in the company's areas of service. With this, along with its high level of engineering capability and competency, CEAL offers a versatile and highly committed team that is uniquely positioned to provide to its clients, cost-effective engineering solutions that are experience-based focally holistic, safe, resilient and sustainable.





The firm was first incorporated as Consulting Engineers Associates Limited and commenced business in 1993 as a limited liability company with offices at #54 Ramsaran Street, Chaguanas. In August 2005 the firm was re-registered as Consulting Engineers Associates 2005 Ltd under new management and continued to provide multifaceted Engineering and Project Management Services throughout Trinidad and Tobago and the Eastern Caribbean. In August 2020 the firm entered a new phase of its development when it transitioned into an employee owned Company in which the senior officers of the Company acquired the directorship, shareholding and management of the Company.

Over the years that the firm has been in operation, it has moved from strength to strength in the training and professional development of its key personnel, in its incorporation of state-of-the-art engineering technology, and in its application of innovative solutions in engineering designs and project management. Today, all of the company's key personnel are highly qualified technicians and registered engineers with considerable experience in the Planning, Management and Execution of Civil and Structural Engineering Designs and Construction Oversight. The Company's in-house capabilities cover the full gamut of computerized systems and technology for innovation in all areas of engineering design analysis and production of drawings and documents.

With an operational history of over 27 years, CEAL continues to be a strong, competitive, client and employee-oriented Company. The Company has, over the years, successfully navigated the vagaries of the economic uncertainties that impact the construction industry without compromising its Core Values and today its stakeholders can be assured that the Company continues to be well poised to maintain its Vision and to achieve its Mission. The renewed commitment on the part of its directors and employees/owners, in a time when businesses are facing serious challenges due to the pressures brought on by the new normal of the COVID-19 environment, has further poised CEAL to move into its new phase as a highly successful and recognized engineering practice that provides clients with outstanding and valued engineering services.

OUR CORE VALUES, VISION, MISSION & COMMITMENT



CORE VALUES

- Integrity and Professionalism in our interaction with all stakeholders, including Colleagues,
 Clients, fellow Professionals, Contracting Agencies and Statutory Bodies.
- Perform our work and conduct ourselves in such a manner as to inspire the confidence and loyalty of our Clients and to provide results-oriented services of the highest possible standard and industry best practice.

VISION

To be a highly successful and recognized Engineering Practice in Trinidad and Tobago and the Caribbean, providing outstanding and valued engineering and project management services.

MISSION

To continue to develop and maintain a team of highly trained, skilled and committed professionals, at every level of the organization, who continually strive to improve their knowledge, proficiency and technical capability and by extension the firm's engineering capability and competency in service to its Clients.

COMMITMENT

CEAL accordingly declares its unswerving commitment to: -

- The highest standards of engineering and ethical practice;
- Continuing personal and professional development of its employees through training, coaching, mentoring, professional registration and affiliations and opportunities for upward mobility within the organization;
- Providing a work environment and working conditions for its employees that are motivating and compatible with a progressive and growing organization





COMPANY PHILOSOPHY

In seeking to best satisfy our Clients' requirements and to ensure the most valuable, timely and efficient delivery of the complete range of services provided for the execution of projects, CEAL has adopted the following underlying philosophy:

- Adopt the most appropriate codes, standards, methods and technological tools for execution of project designs;
- · Allocate experienced and trained personnel to its projects;
- Provide the necessary competencies which are appropriate for each project and propose design and construction methods, materials and systems that are safe and resilient and best suited to the particulars and peculiarities of the Employers' Requirements and site conditions;
- Apply value engineering design principles that emphasize environmental sustainability in the choice of
 materials and construction methods, economy of design, minimization of maintenance cost and life cycle
 cost;
- Consult and keeping the Client informed at all times during each phase of the project;
- Sustain an organized effort to facilitate the flow/exchange of information with the Client and within the design team
- Monitor and document the information flow and maintain contemporaneous records of projects as they
 progress;
- Verify the Client's expectations and degree of satisfaction against the project objectives.

SERVICES OFFERED

Consulting Engineers Associates 2005 Ltd offers services in the following areas of engineering practice:

- Structural Designs Buildings, Foundations & Retaining Walls
- Drainage, Irrigation and Detention Ponds
- Pipeline and Water Reticulation Systems Design
- Supervision and Contract Administration
- Marinas and Coastal Infrastructure
- · Building Services (Electrical & Mechanical)
- Bridges
- · Highways and Roads
- Hydrology and Hydraulic Studies
- QA/QA Inspections
- Condition Assessment and Reports
- Land Development
- Civil Infrastructure
- Jetties, Trestles and Quay Walls
- Structural Evaluations and Technical Reports
- · Computer- Aided Design
- · AutoCAD Draughting





"I say to Clients who require immediacy in the execution of their construction projects that while the work that we Civil Engineers do is presented graphically on paper, Engineering is not a Graphic Art; it is a Science by which hypotheses are postulated for solving problems of human development in the physical environment and which have to be tested against the laws of physical science as well as codes of practice and standards developed on the basis of scientific knowledge, engineering experience and ingenuity."

- Vaughn I. Lezama, R. Eng. - Executive Chairman

INNOVATING • ENGINEERING • SOLUTIONS



DIRECTORS / KEY PERSONNEL

VAUGHN LEZAMA

BSc. (Hon), M. ASCE, FAPE., R.Eng.,
Executive Chairman / Principal Engineer

Mr. Lezama graduated from the University of the West Indies in 1979 with a BSc in Civil Engineering. After gaining some 15 years' experience with a leading engineering consultancy firm, he co-founded the firm Consulting Engineers Associated Limited in 1993. Mr. Lezama is a Fellow of the Association of Professional Engineers of Trinidad and Tobago, a Member of the American Society of Civil Engineers and a Registered Engineer (#04-110) with the Board of Engineering of Trinidad and Tobago.

As a nominee of the Association of Professional Engineers of Trinidad and Tobago, Engineer Lezama served two terms (2013-2019) as a Member of the Board of Engineering of Trinidad and Tobago. During his tenure on the Board he served as Chairman of the Board's Assessment Committee with oversight for the Assessment of the practical professional competency of applicants for Registration with the Board of Engineering.

Mr. Lezama has considerable experience in the management and execution of engineering designs, technical and feasibility studies, structural condition assessment reports and Contract Administration and is widely and internationally trained in the use of the FIDIC suite of Contracts.

Email contact: vaughn@ceal2005.com (868) 620.6556

DION WEBBER

BSc., MSc. MAPE, R.Eng.

Managing Director - Structural /Civil Engineer

Mr. Webber graduated from the University of the West Indies in 2008 with a BSc in Civil Engineering and also holds a MSc in Civil Engineering. He is a Member of the Association of Professional Engineers of Trinidad and Tobago and a Registered Engineer (#04-1486) with the Board of Engineering of Trinidad and Tobago. Having joined CEAL in 2008 he has gained considerable experience in engineering designs and construction supervision on a wide and complex range of engineering projects. Having shown promise in his professional development and demonstrating a high level of engineering competency, leadership and management capability at the company, Mr. Webber was appointed a Director of the Company in 2012. In 2020 the Board of Directors appointed Mr. Webber to the position of Managing Director of the company with effect from August 2020 to succeed Mr. Lezama, who held the position for the previous 26 years, and to guide the future growth and development of the Company.

Email contact: webber@ceal2005.com (868) 479.4481





ERLAND ALLEYNE

BSc., MSc., MAPE., R. Eng.

Executive Director - Structural /Civil Engineer

Mr. Alleyne graduated from the University of the West Indies in 2007 with a BSc in Civil Engineering and holds a MSc in Civil with Environmental Engineering. He is a Registered Engineer (#04-1485) with the Board of Engineering of Trinidad and Tobago and a Member of the Association of Professional Engineers of Trinidad and Tobago. Mr. Alleyne has acquired engineering experience that encompasses civil and structural engineering designs for a wide range of industrial, commercial and public sector projects. Mr. Alleyne is also experienced in the field of FIDIC Contract Administration and Project Management and has carried out the function of Resident Engineer, managing multi-discipline teams on a range of projects for which he has held responsible charge for project oversight. Mr. Alleyne was appointed to the directorship of the company in 2019.

Email contact: erland@ceal2005.com (868) 766.8610

RICHARD GREENIDGE

Cert./PM; Cert./City & Guild

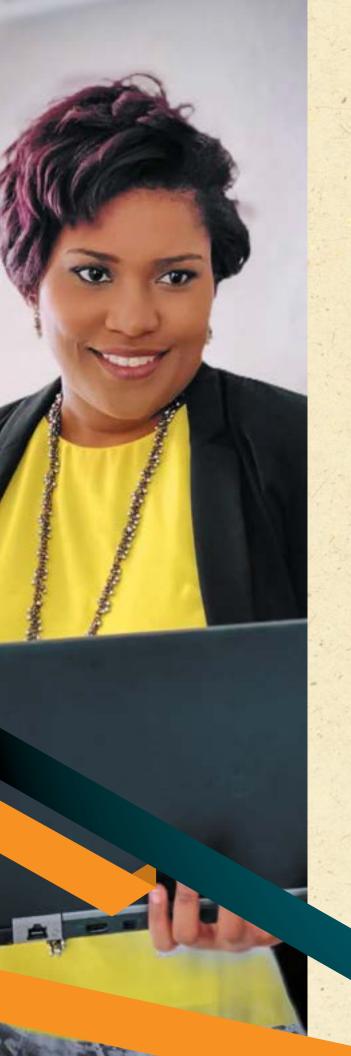
Executive Director – Senior Technician

Mr. Greenidge has been a key member of the Company since 2004 during which time he has been involved in both construction supervision and development of the Company's drafting practices and standards. Mr. Greenidge holds Certifications in Project Management and City & Guilds Certifications in Construction Technology. He has for several years been the most senior Technician at the Company with oversight responsibility for the high-quality output of the Company's draughting office and of which the Company is indeed proud. In recognition of Mr. Greenidge's important contribution to the Company and the leadership role he continues to play in developing and maintaining the Company's drawing office standards Mr. Greenidge was appointed a Director of the Company in 2019.

Email contact: richard@ceal2005.com

868.683.6631





MELLISSA LEZAMA-ROPER

BSc. (Hon)., MA., LLB., LPC
Director/Secretary

Mrs. Lezama-Roper is a founding Director of Consulting Engineers Associates 2005 Ltd., She is a senior HR Professional with qualifications in Industrial/Organizational Psychology and Law and has considerable experience and proficiencies in Operations, Organizational Development, Performance Management and Employment Law. She has been largely involved at a senior leadership level with key responsibilities for development of business strategies, HR policies, training plans, manpower/succession planning as well as provision of legal/HR advice associated with workforce issues, including employment claims for unionized and non-unionized environments. Mrs. Lezama-Roper formulates and oversees the Company's progressive HR Policies and as the Company's Secretary she plays an essential role in supporting the Board of Directors and in governing and monitoring the operations of the company.

Email contact: mellissa@ceal2005.com

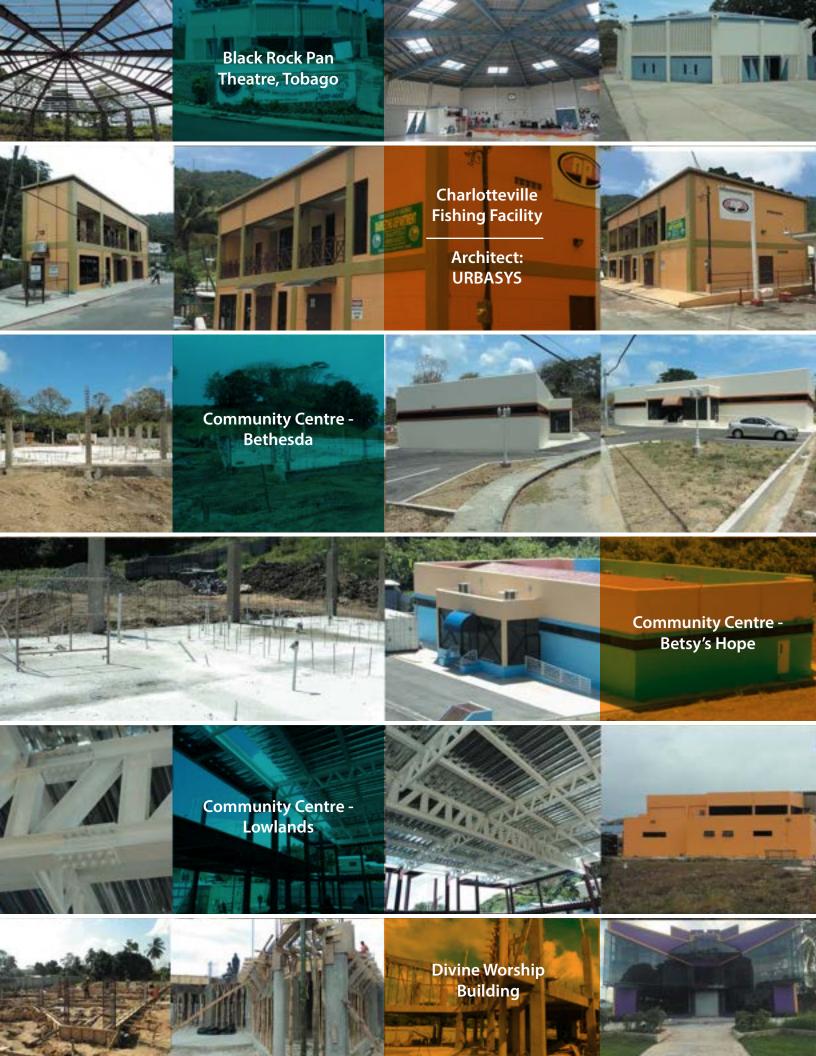
MAGDA LEZAMA

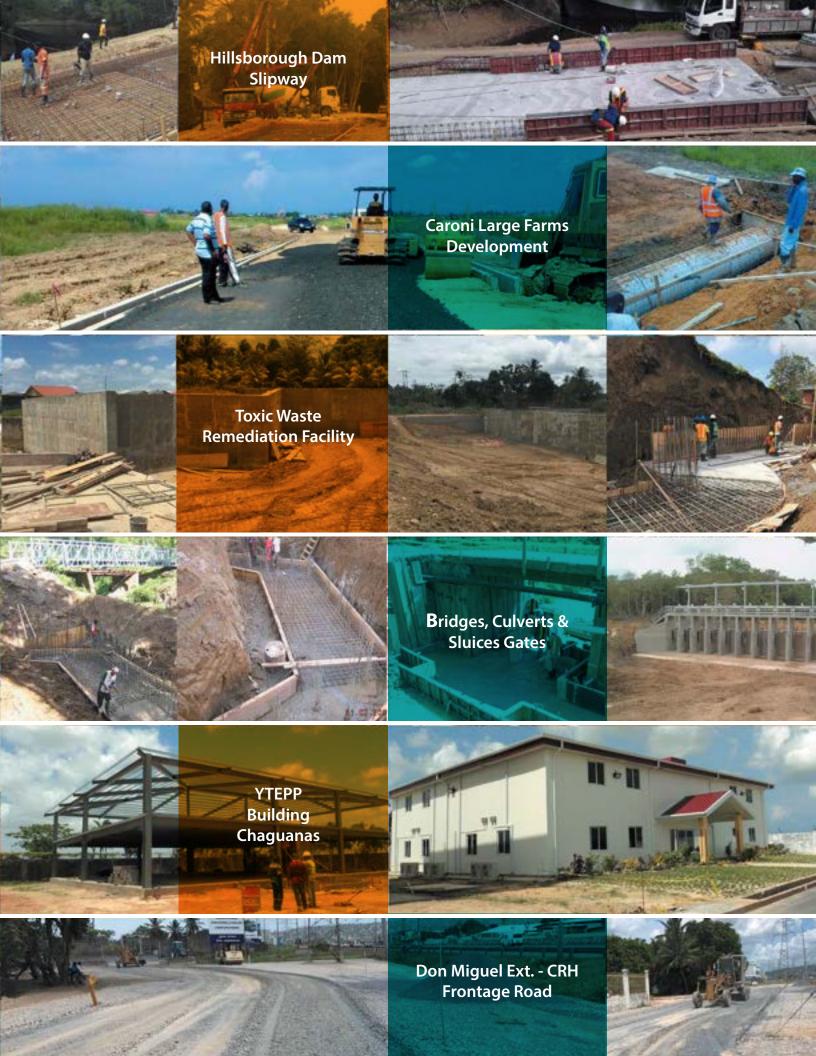
BSc. MSc; Dip.; C. Eng.; MICE; FAPE
Associate & Senior Consultant

Magda Lezama graduated from the University of the West Indies in 1980 with a BSc in Civil Engineering and holds a Post Graduate Diploma in Civil Engineering Studies from Sheffield City Polytechnic, UK (1992), a MSc in Construction from Sheffield Hallam University, UK (1996) and training in Sustainable Urban Drainage Systems (SUDS). Ms. Lezama is a Chartered Civil Engineer (UK), a Member of the Institution of Civil Engineers (UK) and a Fellow of the Association of Professional Engineers of Trinidad and Tobago. Engineer Lezama specializes in planning and infrastructure development with emphasis on investigation, design and construction of drainage schemes including Flood Risk Management and the use of hydraulic modeling tools for drainage design.

Email contact: magda@ceal2005.com







MARINE INFRASTRUCTURE



"Great design is not just a solution; it is the elimination of the problem."

M. Cobanli





PPGPL ADMINISTRATION HEAD OFFICE ARCHITECT: NLBA



"Innovation can be defined as the introduction of a new idea, method, or device or simply doing the things we do every day a little bit better; at CEAL we create an environment where our ideas connect and for us it is crucial to embrace innovation so that we can strive and compete among others in our field of engineering practice."

Erland Alleyne, R. Eng. -Executive Director



"The results of engineering designs are invariably presented graphically. The interpretation and implementation of such designs, as intended by the designer, are largely dependent on the level of details presented and the manner of their presentation; at CEAL we follow quality management systems and guidelines that demand that we pay particular attention to details so that our Clients get value for money."

QUALITY POLICY STATEMENT

The following quality management guidelines form the basis of CEAL's Quality Standards Manual which guides the firm's Engineering Design Team in creating a project specific Designer Quality Control Plan for the pre-construction activities of each project.

Design Team Leader:

- Prepares and administers the Company's quality standards.
- Reviews project specific Design Quality Control Plans for compliance with the firm's policies/standards.

Quality Assurance Manager - Principal Engineer:

 Verifies that all project documents were checked in accordance with the Quality Assurance/Quality Control procedures.

Engineer of Record:

- Responsible for supervising the designs.
- Stamps the final plans and calculations.
- Registered with the Board of Engineering of Trinidad and Tobago.

CAD Manager/Snr. AutoCAD Technician:

- Verifies that all project drawings follow CEAL's Standards or approved international Standards and the project Specific CAD Management Plan.
- Develops a CAD management strategy to coordinate the project team's CAD work (including sub-consultants).

Project Team Design Leader:

- Typically, is the Project Design Team Manager.
- Implements the Quality Assurance/Quality Control Procedures.

Discipline Design Lead:

 Ensures Quality Assurance/ Quality Control procedure compliance within their specialized discipline (including sub-consultants).





- Monitors design Activities for compliance with criteria and standards.
- Verifies that assigned personnel are capable of performing the required analysis or calculations.
- Releases the completed contract documents for their specialized discipline. This is done only when the Quality Assurance/ Quality Control process is complete.

Designer Team Leader

- Responsible for design completeness, accuracy, adequacy and inter-disciplinary coordination.
- Responsible for ensuring quality control is performed and documented.
- Rely upon the Quality Assurance/ Quality Control procedure to correct design or calculation deficiencies.
- Presents calculations in a neat and logical manner to facilitate checking.
- Reviews the completed plan set to ensure that it satisfies the design intent.
- Cannot function as the Checker or Quality Assurance Manager.

Peer Review (Externally sourced):

- Checks work product independently of the Design Team.
- Will only check work that he/she did not originate.
- Must be competent and experienced in the type of element being checked.
- Cannot function as the Lead Designer, Back Checker or Quality Assurance Manager.

Back Checker:

- Reviews corrections asserted by the Checker.
- The Back Checker could be the Team Leader.
- Cannot Function as the Verifier or Quality Assurance Manager.

Corrector:

- Incorporates all corrections.
- In most cases, the Corrector is the Originator.
- Cannot function as the Verifier or Quality Assurance Manager.

Verifier:

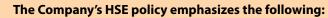
- Verifies back checked corrections were accurately made.
- Confirms all information is highlighted to verify that all information was checked.
- In most cases, the Verifier is the Checker.
- Cannot function as the Corrector or Quality Assurance Manager.

HEALTH, SAFETY & ENVIRONMENTAL POLICY STATEMENT



The Company has a strong commitment to ensuring the highest health and safety conditions for all employees, together with the moral and legal responsibilities of an effective accident prevention and environmental protection program. The program and policies summarized herein is backed by the management, and administered, facilitated and monitored by the appropriate officers responsible for the respective duties.



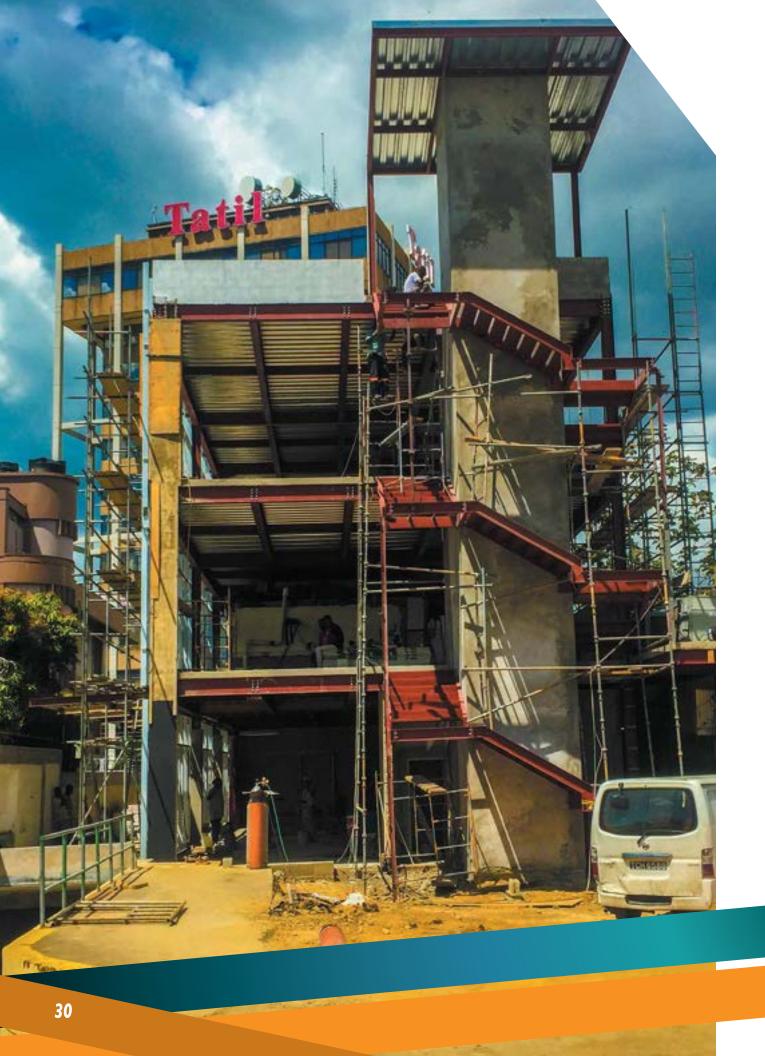


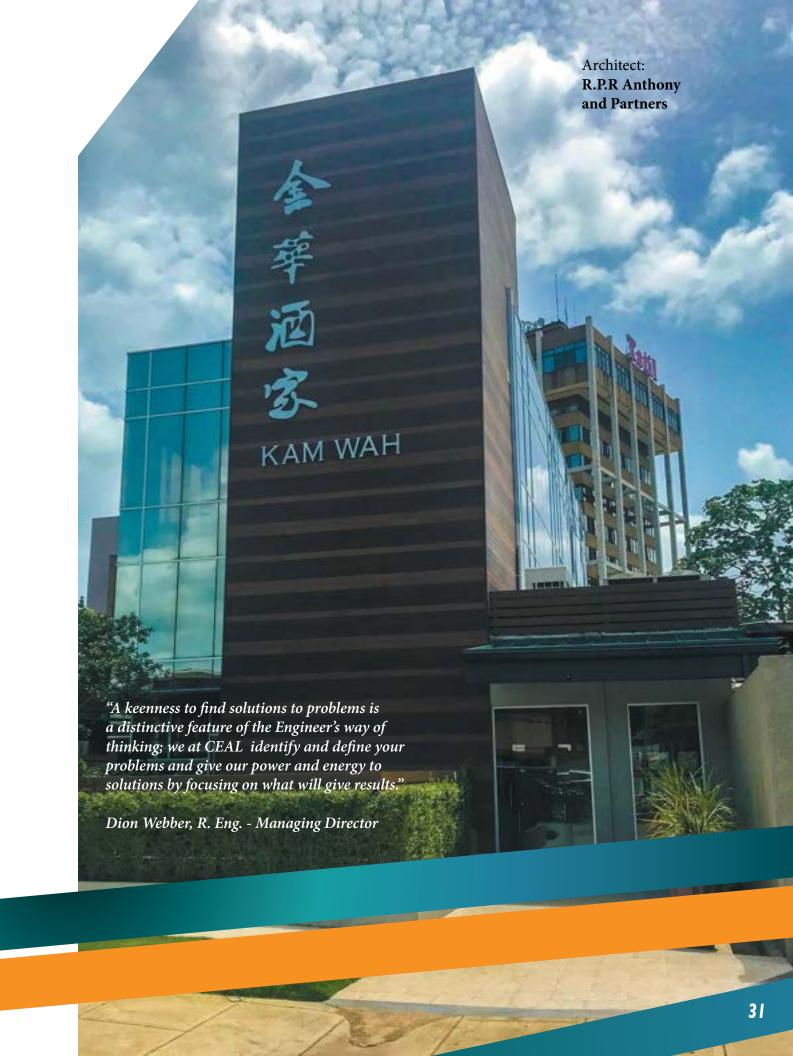
- Continuous review and updating of safety procedures
- Comprehensive safety training for supervisors and employees
- Requirements for on-site 'tool box' meetings with employees and management
- Provision of proper 'first aid' facilities and competent medical care
- Establishment of general safety and fire prevention protection plans
- Close coordination with insurance carriers on claims investigations
- Inspection and monitoring of the project and advising management of trends or problems
- Control procedures regarding health hazards and toxic materials
- Compliance with government rules and regulations.













WHY CEAL?

Consulting Engineer Associates 2005 Ltd (CEAL) since its establishment in 1993 under the former name of Consulting Engineers Associates Limited, has grown to be an outstanding and well-established engineering practice in the construction sector in Trinidad and Tobago. Over the years the Company has developed a high level of engineering capability and competency in an extraordinarily wide range of civil engineering practice. The institutional knowledge and engineering design capability of the Company spans the gamut of civil and marine infrastructure, building structures, technical investigations and studies, structural condition assessment reports, contract documentation, construction oversight and contract administration utilizing the entire suite of FIDIC Contracts.

CEAL is therefore uniquely positioned to provide to its clients, costeffective engineering solutions that are experience-based and focally holistic. The provision of engineering design solutions which are safe, resilient and sustainable and of value for money is a hallmark of the in-depth and wide institutional engineering experience and capability of the Company. As such, Clients utilizing the engineering services of CEAL benefit from the foresights and insights afforded by its strong institutional capability developed through the firm's wide involvement in both design-bid-build and design-build projects and project oversight. With such involvement which requires our collaboration and teaming with state contracting agencies, developers and contractors, the Company has developed in-depth insights into issues of practical design applications, constructibility, sustainability, life cycle costs, contractual dispute issues and environmental and social sensitivity, all of which it brings to engineering design and contract administration solutions for the benefit of its Clients.







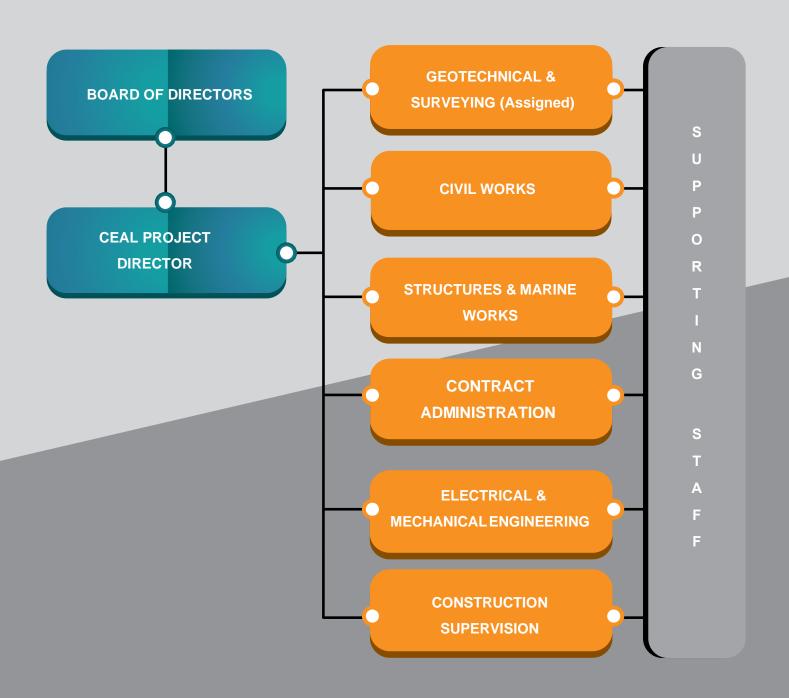


Photos: La Brea Fabrication Yard

MHTL MOLE-SIEVE WAREHOUSE



ORGANIZATIONAL STRUCTURE



STRUCTURAL DESIGN PROJECTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
PHOENIX PARK GAS PROCESSORS LTD HEAD OFFICE COMPLEX	Civil/Structural Engineering Designs and technical support during construction of 16,000 sq.ft. Office Complex. Rivulet Road, Point Lisas	\$24.0M
CIPRIANI COLLEGE OF LABOUR & CO- OPERATIVE STUDIES -Upgrade and Expansion	Structural Engineering Design and technical support services during construction	\$30.0M
CHARLOTTEVILLE VENDORS MALL, Tobago	Structural & Civil Works Designs for Construction of 13,500 sq.ft. two-level Mall Facility at Charlotteville, Tobago	\$24.0M
THA COMMUNITY CENTRES CONSTRUCTION PROGRAMME	Structural and Civil Works Design for Community Centres / Multi-Purpose Facilities at Belle Garden, Speyside, Betsy's Hope, Bethesda, Lambeau, Low Lands and Buccoo, Tobago.	\$50.0M
GULF VIEW MEDICAL CENTRE EXTENSION	Civil, Structural, M & E engineering design for extension of private hospital facility	\$4.85M
POWERGEN WORKSHOP FACILITY, POINT LISAS POWER STATION	Structural Engineering Design of 18,600 sq.ft workshop with 2 No.50 ton Traveling Cranes	\$5.0M
ASSOCIATED BRANDS INDUSTRIES LIMITED (ABIL) – Factory Expansion	Structural Engineering Designs of Factory expansion, New Warehouse and Office Complex, San Juan (Sunshine Snack)	\$30.0M
ECO-INDUSTRIAL DEVELOPMENT COMPANY OF TOBAGO	Structural and Civil Engineering Designs and Technical Support Services for Construction of two Multi Producer Factory Buildings at Cove-Eco-Industrial Business Park, Tobago	\$15.0M

FOUNDATIONS & RETAINING WALLS PROJECTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
CONOCO GASOLINE TANK FOUNDATION - Point Lisas	Structural Design of RC Foundation	\$1.5M
PCS NITROGEN CATALYST CONVERTER FOUNDATION	Structural Design of RC Foundations for Catalyst Vessels	\$2.5M
FIRE WATER TANK FOUNDATION – LNG PLANT POINT FORTIN	Structural Design of 650,000 gallons Fire water tank Foundation for EPC Contract – Damus Ltd.	\$18.0M
TSTT CELL SITES TOWER FOUNDATIONS	Foundation Design for Construction of Cell tower foundations at various locations in Trinidad	\$25M
TANK FARM FACILITIES FOUNDATION – Point Fortin (H.J Gransaull & Co Ltd)	Structural Design of Foundations for Tank Farm- Oil Recovery Plant	\$12.0M
RETAINING WALL AT NAPARIMA/ MAYARO ROAD (COCOYEA VILLAGE)	Structural Design of 5.7 m H x 27m L Cantilever Retaining Wall on Augered Pile Foundation	\$1.65M
HONDA RIVER WALLING	Structural Design of RC Cantilever Retaining Walls of varying heights (3.75m & 4.22m) to River Lining	\$3.5M
RETAINING WALLS AT LAS ALTURA APARTMENT COMPLEX	Structural Design of RC Cantilever Retaining Wall of varying heights – (3.3m, 4.4m, & 7.5m)	\$6.5M
MESSER OXYGEN PLANT EXPANSION – Point Lisas	Structural Design of piled Foundations for installation of Plant Vessels and Equipment	\$4.5M
JSCL CONCRETE BATCHING PLANT FOUNDATION	Structural Design of Foundation for Concrete Batching Plant at the CRH/UBH interchange Project	\$0.25M

CIVIL INFRASTRUCTURE PROJECTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
CORINTH GARDENS HOUSING DEVELOPMENT	Design of Roads, Drainage, Sewerage and Water Reticulation System for 100 Acres housing development site consisting of singly family, townhouses, apartment units, commercial and community facilities	\$150M
COORA RIVER BRIDGE	Structural Design of 30-M span bridge, Pre-stressed Beam on Piled Foundation	\$3.5M
CARONI AGRICULTURAL LANDS PROJECT	Infrastructure Design for Development of 2-Acre Agricultural Plots for former Caroni workers at Orange Grove, Edinburgh & Felicity Estates	\$92.3M
LADY YOUNG GARDENS HOUSING DEVELOPMENT PROJECT (Las Alturas)	Roads and Drainage Infrastructure and Retaining Walls Design for 6.5 ha development project on sloping lands for construction of town house, duplexes and row houses	\$16.0M
LA BREA FABRICATION YARD FOR THE FABRICATION OF OFFSHORE STRUCTURES	Design of shore-side infrastructure for 30-Acres Fabrication Yard for fabrication of Offshore structures (3,000 tons). Include land reclamation, 500mm thick hard standing surface, electrical and drainage infrastructure	\$46.0M
OCEAN VIEW HOUSING DEV Claxton Bay	Infrastructure Design of Roads, Water Reticulation, Sewage Collection System Drainage and Detention Ponds for 100-Acres Land Development	\$25.0M

CLAXTON BAY LAND DEVELOPMENT – Subsidiary of VARMA Steel	Roads, Drains and Water Reticulation Infrastructure Design for 118-Acres ½ Acre Homestead Development Project	\$35.0M
WELCOME ESTATES HOUSING DEVELOPMENT	Design of Roads, Drainage, Detention Pond and Water Reticulation System and CEC for 3.469ha Housing Development (50 plots) Project	\$8.0M

MARINE INFRASTRUCTURE PROJECTS

CAT		
PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
QUAY WALL JETTY - CLAXTON BAY	Design of 100M long Quay Wall Jetty comprising of AZ28 Sheet Piles; 914mm dia. Bollard Piles; PU18 Tie-back piles; 15m long x 80mm dia. Tie-back Rods; 250kN RC Loading Slab 350mm thick on 300mm sq. Prestressed Piles; 400kN Bollards	\$15.0M
COCOS BAY & SOUTH COCOS BAY SHORELINE STABILIZATION PROJECTS	Coastal and Structural Engineering Designs of 500m & 800m respectively comprising of Rock Revetment, Sheet Pile wall for protection of the Manzanilla Coast south of the Nariva River. Including Engineering Studies and Bathymetric Surveys	\$17.0M & \$34.0M
RECONSTRUCTION OF BERTHS AT CARICOM WHARVES - POS	Coastal and Structural Engineering Design for Jetty reconstruction. Include pre- stressed concrete piles, precast and in-situ post-tension concrete slab and sheet pile	\$5.0M
CARICOM DOCK UPGRADE - POS	Design of waterfront infrastructure works for upgrading of the CARICOM Wharves. Include pavement and drainage works design	\$3.0M

DREDGING AND ANCILLARY WORKS AT QUEEN'S WHARF - POS	Supervision of bathymetric surveys and Dredging Works to 8.0m draft and design of Sheet Piling and Fenders installation works	\$60.0M
LA BREA FABRICATION YARD FOR THE FABRICATION OF OFFSHORE STRUCTURES - Labidco Industrial Estate, La Brea	Design of Shore side Infrastructure for 30-acres Fabrication Yard for the fabrication of Offshore Structures. Design comprised of mass excavation, reclamation and geofabric installation, drainage infrastructure, 500mm thick hard standing aggregate basecourse to support 3,000 tons loads, electrical, water and sanitary infrastructure	\$46.0M

CONTRACT ADMINISTRATION PROJECTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
TTPOST DELIVERY SERVICE OFFICES	Construction Oversight for Refurbishment of Delivery Offices and Construction of One New TTPOST Office at Williamsville	\$30M
MAXIMUM SECURITY PRISON FENCING – GOLDEN GROVE PRISONS	FIDIC Engineer (Yellow Book) providing Contract Administration Services for Oversight of two Design-Build Contractors, one involved in the construction of a High Security Fence system and the other in the construction of Security Control Building, Guard Booths and Security Control and Access Systems including lighting and CCTV monitoring systems	\$68M
MARABELLA SECONDARY SCHOOLS	FIDIC Engineer for Construction of school under the Secondary Schools Construction Programme	\$145.3M

COUVA SECONDARY SCHOOLS	FIDIC Engineer for Construction of school under the Secondary Schools Construction Programme	\$172.8m
DREDGING OF QUEEN'S WHARF AND CARICOM WHARVE – POS	FIDIC Engineer responsible for Contract Administration and Construction Oversight under the FIDIC Form of Contract FOR DREDGING AND RECLAMATION WORKS	\$60.0M
COMMUNITY CENTRES PROGRAMME – Ministry of Culture GOTT	FIDIC Engineer and Construction Oversight for Construction of Community Centres at Ortoire, Sisters Road, St. Augustine, North Manzanilla, Gonzales, Bon Air, Arima, Roystonia and others	\$25.0M
MHTL M5000 METHONAL PLANT – Point Lisas	Assist the End-User Client in the provision of QA/QC Oversight Services for Construction of the Plant Foundation Works	\$40.0M

DESIGN BUILD AND FAST-TRACK PROJECTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
LABIDICO INDUSTRIAL ESTATE OFFSHORE STRUCTURES FABRICATION YARD	30-Acre Site for fabrication of Offshore Structures at La Brea Industrial Estate – DB Contract in association with Sunco Engineering Services Limited	\$46M
AMOCO BLUFF EROSION MITIGATION - GALEOTA	Coastal protection works at Amoco Pt. Galeota Facilities – DB Contract in association with TARMAC Construction	\$8.5M
SWMCOL SEA LOTS WASTE TRANSFER STATION	Construction of Waste Transfer Station to facilitate the 5th Summit of the Americas Conference – DB Contract in association with MSR Construction Ltd	2.5M

POS PORT FACILITIES UPGRADE FOR 5TH SUMMIT OF THE AMERICAS CONFERENCE IN TRINIDAD	Fast track design and construction for upgrading and retrofitting of Port Sheds, Roads and facilities for hosting of the 5th Summit of the Americas Conference	\$15.0M
EL QUEMADO RIVER BRIDGE - TALPARO	Design of 15m span RC bridge on piled Foundation – DB contract in association with R. Mahabir & Sons Ltd	\$12.5M
CORINTH GARDENS HOUSING DEVELOPMENT INFRASTRUCTURE	Design of Roads, Drainage, Water Reticulation and Sewerage System Infrastructure – DB Contract in association with PACE Construction Services Ltd.	\$98M
CIRCORED PROJECT ELECTRICAL SUBSTATION – Point Lisas	Design of Electrical Substation for Lurgi Hydrogen Plant – DB Contract in association with W.E. Whiteman & Co. Ltd	\$2.5M

ENGINEERING STUDIES & REPORTS

PROJECT TITLE & LOCATION	DESCRIPTION	VALUE [TT\$]
HYDRO AGRI PLANT DRAINAGE STUDY	Hydrological & Hydraulic evaluation and Report of Plant Drainage System	\$.05M
EI QUEMADO RIVER BRIDGE - TALPARO	Hydrology study of River Catchment to determine Flow capacity at the Bridge	\$12.5M
UREA PORTAL SCRAPER RAIL STUDY - PCS NITROGEN	Investigation and Evaluation of irregularities in the scraper rail alignment	\$2.5M
COMMUNITY DEVELOPMENT WORKS - COALMINE	Condition Assessment and Development of a Master Plan for improvement of existing infrastructure and community facilities	\$10.0M

BERTH 6ª CRANE RAIL INVESTIGATION - PATT	Investigation and evaluation of irregularities in rail alignment which have led to the rail deterioration	\$0.25M
CARONI LARGE FARMS DEVELOPMENT PROJECTS	Field Investigations, Data Collection, Impact Study and Needs Analysis for 100-Acres large farm developments at Jerningham and Caroni Estate	\$22.5M
PCS NITROGEN BULK WAREHOUSE STUDY	Investigation into damage and deterioration of Urea Storage Warehouse	\$0.25M
PPGPL CONTROL BUILDING	Engineering Investigation and Report including Blast Resistance Analysis of Blast Wall	\$6.6M
NUCOR IRON CARBIDE SILTATION STUDY	Siltation Study and Report on Nucor Berthing Channel	\$0.3M

"At CEAL, we recognize that the common thread in the best of engineering and innovative solutions is our human resource. With that in mind, we aim to inspire the confidence of our team members by investing in their development and ensuring they're well-equipped to rise to the challenges of the ever-evolving construction landscape. We value our people's inputs and contributions to our successes, and in every decision we make or innovation we pursue, we strive to put their needs and welfare first."

Mellissa Lezama-Roper – Director/Secretary



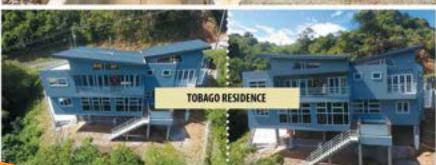






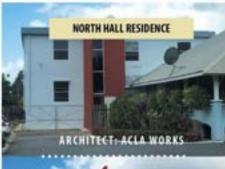


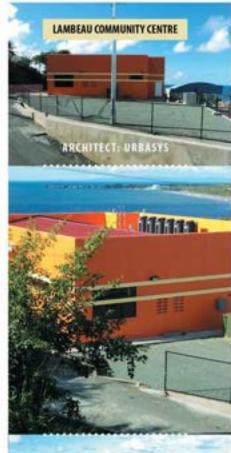
















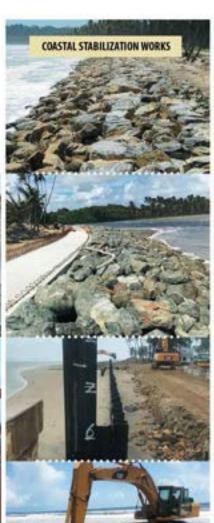


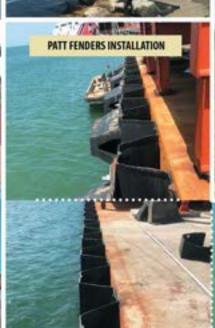




















CLIENTS & COLLEAGUES REVIEWS

"When the original **Kam Wah Restaurant** structure on Maraval Road was done some 20 years earlier, the service we received from **CEAL** was both efficient and timely, therefore when we needed to expand, we immediately went to **CEAL** and the service again proved to be reliable in meeting the challenges of retrofitting the existing building and expanding it to meet our new requirements"

David Aleong - Businessman

"We have used **Consulting Engineers Associates 2005 Ltd.** (**CEAL**) extensively over the years for a wide variety of engineering/design services. We have always found **CEAL** to be professional, timely and above all reasonable when addressing unexpected issues which may have arisen. Overall, they have been a great team to work with."

Daniel Scott - Chairman - AP Scott Trinidad Limited; and Steel-Framed Engineered Solutions Limited

"Consulting Engineers Associates 2005 Ltd (CEAL) has provided professional Structural and Civil Engineering Design Solutions to Coosal's for several years. CEAL's Team has always been a dedicated partner and an instrumental team member on our projects where engineering design expertise are required. CEAL has supported Coosal's on several Design-Build Projects and has always responded with timely delivery of engineering design solutions and construction drawings. Partnering with responsive, dedicated and client-conscious professionals is critical in bringing "true" value to a project".

Glenn Mahabirsingh - General Manager, Operations - Coosal's Construction Company Limited

Consulting Engineers Associates Limited (CEAL) was the primary consultants involved in the expansion of Associated Brands Industries Limited Administration Building and the Sunshine Snacks Division. The team provided engineering designs for the project, under the leadership of Mr. Lezama who was personally involved in providing the technical expertise on this project. CEAL executed its mandate in a highly professional and competent manner and met all timelines for deliverables, manoeuvring through all obstacles to deliver a building that stands proud today. We continue to utilize their services based on the technical competency and professional delivery of consultancy needs.

Nicholas Lok Jack - Deputy Chairman/Group CEO

"When I think of the company Consulting Engineers Associates 2005 Ltd, the words and phrases that come to mind are: professional, 'no-frills', solution-oriented, competent, quality engineers, and exemplary team. I would not hesitate to recommend them."

Ian E. Welch - Former Managing Director-Nutrien

"I have been associated with **Consulting Engineers Associates 2005 Ltd (CEAL)**, both as a Client and as a specialist technical consultant on a number of engineering projects. I recognize **CEAL** as a firm with a cadre of highly competent and committed professionals, who have collectively accumulated decades of experience in the consulting engineering industry and have successfully executed many civil engineering assignments, including marine and sea defence, port and harbour, residential and commercial structures and complex engineering infrastructure projects".

Cecil Chin – Civil Engineer; Past President - Association of Professional Engineers of Trinidad and Tobago (APETT); and Trinidad and Tobago Contractors Association (TTCA)

"I have been a friend and colleague of Engineer Vaughn Lezama, the Principal Engineer of **Consulting Engineers Associates 2005 Ltd (CEAL)** for over 40 years; I admire his professionalism and his unquestionable integrity. Engineer Lezama has served his profession well and is now selflessly passing on the mantle of leadership through his knowledge and experience to the next generation of Engineers at **CEAL**"

Mark Francois – Structural Engineer; Director- Beston Consulting Limited

