

# **COMPANY PROFILE**





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## **About Us**

CEM has been formed by a group of professionals having solid experience and wide exposure in the construction industry. The resource personnel working in the company's projects have been consistently providing reliable support services and consultancy to a wide variety of corporate houses either in the capacity of executive / business partner or contractor.

The company's philosophy is based on building a long-term business partnership with its clients where interpersonal relationship, reliability, assured quality and target oriented modern technology are the major building blocks.

CEM is a company where professionals from management, engineering and functional fields group together with an objective of providing appropriate and valued projects. It realizes the importance of high quality and its impact in achieving projects objectives and company strategies.

We constantly strive to be a leading modern method construction applying firm with profound business and functional information technology such as BIM. The key to the company's success is the maintenance of a close working relationship with the clients through ensuring the best possible qualifications and values, spreading over lean construction processes to order sustain needs.



#### **Our Vision**

The perspective is to support the decision makers in land development and project management organizations, while developing their projects, in achieving better financial result through minimizing both construction cost and execution.



#### **Our Mission**

The development of successive and continuous waves of smart applications that are mainly based on the integration of various information systems in a single platform.



### I. BIM Services



The BIM Modeling services offered at **CEM** are tested in a virtual environment. This is possible through 3D modeling services, Clash detection & Coordination services, 2D design and drafting services which enables our architects, engineers and design consultants to gain complete insight into the construction project. Our services are used by Architects, Construction Managers, MEP Engineers, Structural Engineers, Contractors, Fabricators, Sub-contractors, Facility managers, Owners, Project managers on all types and sizes of projects. Our BIM team supports the contractors and designers with further more dimensions after 3D modeling, such as, 4D & 5D BIM services (Quantity take off), coordination and clash detection Revit family creation and laser scan to BIM services.

**CEM** provides CAD drafting services for all stages of projects, including tender, planning, construction, and facility management catering to architects, engineers, real estate developers, Interior designers, and consultants. Our strength also comes from our huge experience in terms of the quantity and size of the projects we have handled, and the quality of projects and clients.

# **Project Delivery Improvement**

BIM is Virtual Design & Construction

Automatic Document Coordination

3D Systems Coordination

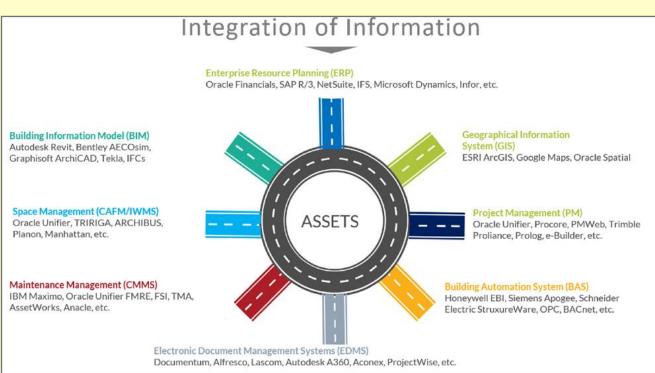
Virtual Building Simulation

Direct Fabrication



# **Key Benefits - Why Us?**

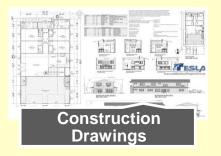


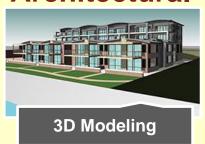




# **Global Projects**

#### **Architectural**



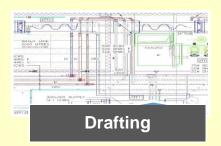








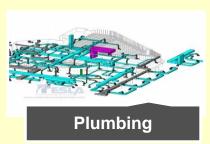








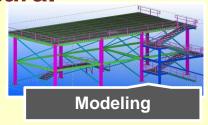


















#### **BIM for Infrastructure**

We use intelligent, connected BIM (Building Information Modeling) workflows to help make your infrastructure projects more resilient, productive, and profitable.



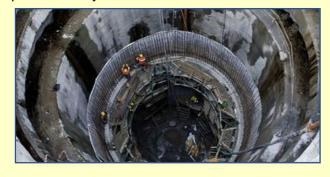
Transportation engineering Promote greater project efficiency and delivery with infrastructure software that provides BIM tools for roads, rail, airports, and ports.



Structural engineering better anticipate issues and assess information throughout your project with BIM. Design and build bridges and tunnels with better predictability and less rework.



Civil engineering saves time and resources by capturing survey data in hours versus days, and improve insights at each stage of your surveying and site development work.



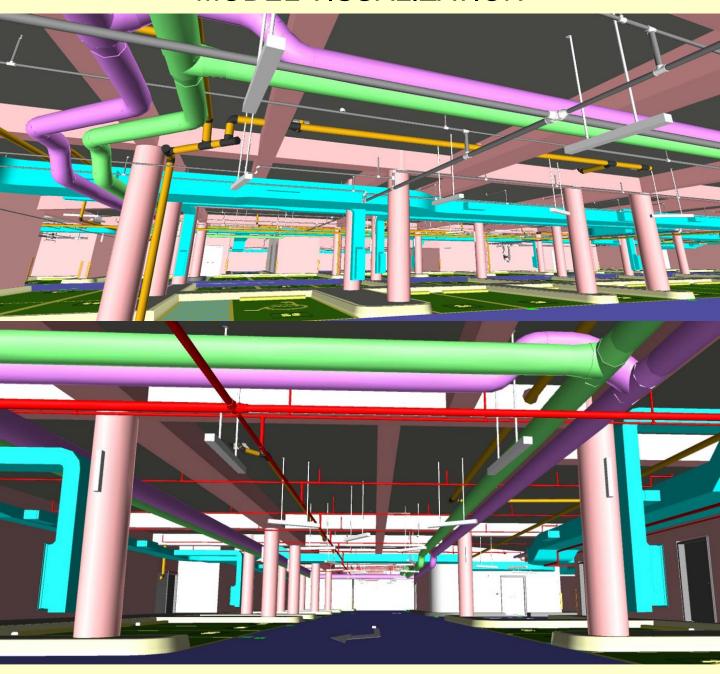
Civil construction improves construction coordination and delivery with BIM for virtual design and construction, giving all stakeholders access to the project



# **BIM Samples**

# **Composite BIM Models**

## **MODEL VISUALIZATION**



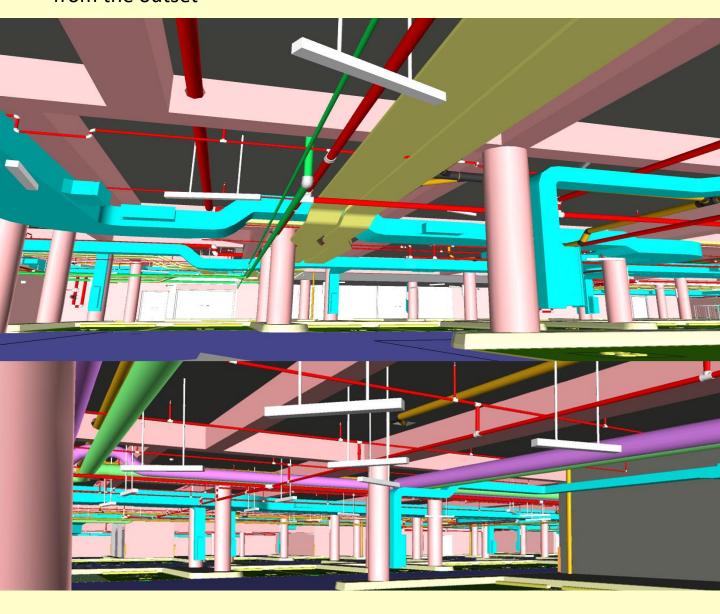
- Creation of walk through and viewpoints
- Rendering of 3D model



# **BIM Samples**

#### **BIM Project Coordination Clash Detection**

We provide base project models for any project across the architecture, structural and MEP industries. This master model becomes the first point of reference for the project, providing a project database for the compilation and retrieval of project data from the outset



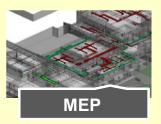
- Effective Clash Detection ASMEP BIM Model
- Clash Reports Generation Based on Soft and Hard Clashes
- Reporting of Interferences



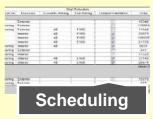
### **CEM Services**

















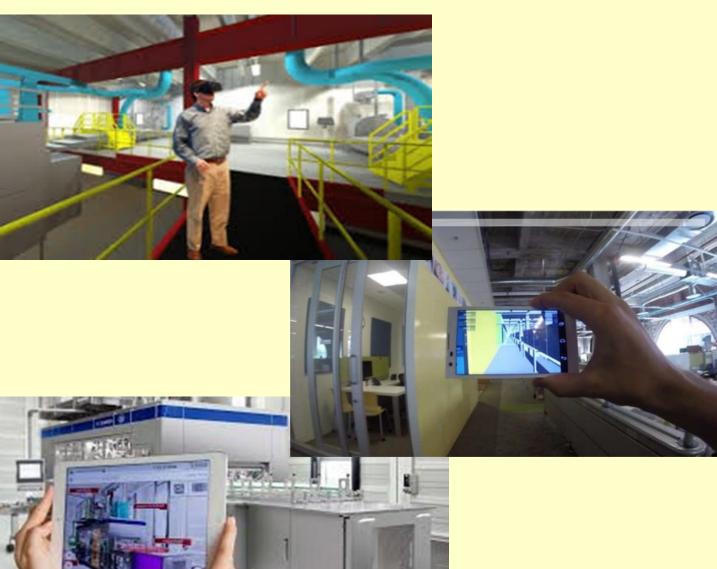
- BIM Construction Management
- BIM Workflow Consulting providing a secure common upload and download area defining milestones for project detail outlining the key people and defining roles.
- Training employees on BIM workflow & software
- BIM Implementation Services
- Perform easy and efficient immigration from CAD to BIM.
- Raise level of details from LOD200 to LOD400 and more assessing design information and conflict detection.
- Modeling Services
- BIM Construction Management
- BIM Workflow Consulting
- Hosting BIM Coordination meetings.
- Assessment of office procedure

- Integrating Revit with any ERP system/application
- Control a project's time, cost, safety record, and quality.
- Coordinate relations among all stakeholder with project progress reports.
- Assess, appoint and manage contractors, subcon and procurements.
- Fit-out services and refurbishment.
- Construction claims and contract management.
- Drawings services for shop and as built drawings
  - Manage the planning, design and construction of a project, from beginning (pre-design) to end (closeout).



# New Technology Solutions Studios

Our talented VR Studio team allows us to handle the entire production of your VR or AR solution, and gives us the range of skills to build your entire solution without having to bring in outside animators or artists. Our team's artistic expertise combined with our technical and Virtual Experience Design expertise is a recipe for truly disruptive VR experiences that redefine what's possible for brands.





# **Implementation Road Map**

# Our Approach

# PHASE 1

# **CLIENT ASSESSMENT**

CURRENT WORK PROCESS REVIEW

ASSESS REQUIREMENT AND PREPARE PROPOSITION

**CLIENT TEAM TRAINING** 

PHASE 3

# EXECUTION

TEAM DEPLOYMENT

**BIM MANAGEMENT** 

DOCUMENTATION AND PROJECT HAND OVER

# PHASE 2

# SOLUTION DEPLOYMENT

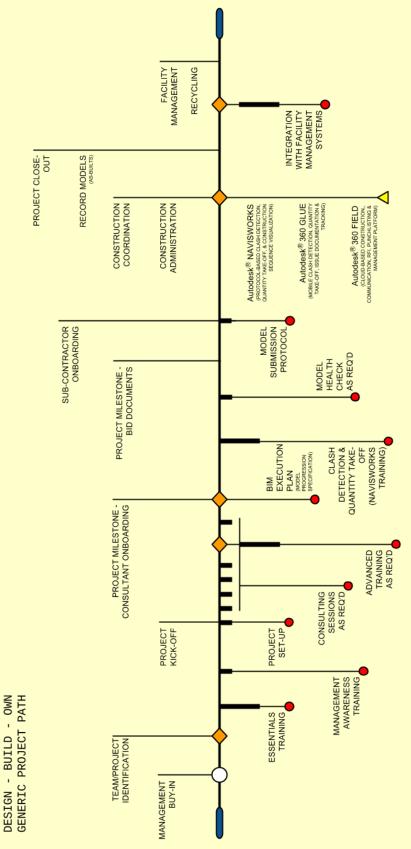
IMPLEMENTATION PLAN

SOLUTION PRODUCTION AND DELIVERABLES

MODEL ENGAGEMENT AND COORDINATION



# **Implementation Strategy**



IMPLEMENTATION SERVICES PRODUCTS & CONSULTING

SERVICES

© FRANCIS SEBASTIAN

PRODUCTS

◁

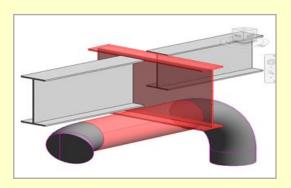
DECISION POINTS

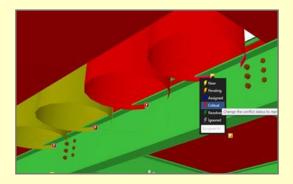
CONSULTING / TRAINING



# **Clash Analysis**

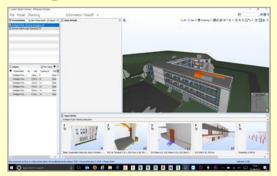
Since all components of a building are designed tridimensionally, it is possible to identify components that are occupying the same place on space when the different models are brought together.





# **Clash Analysis**

Quality Assurance solution for BIM validation, compliance control, design review, analysis and code checking.



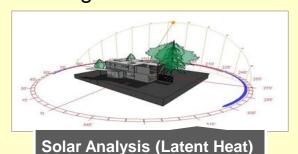
# **Viewing & Tracking Teamwork**



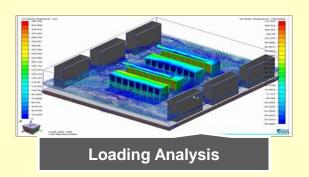
### **ANALYSIS**

#### **Performance Analysis & Sustainability**

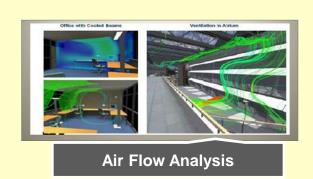
Apart from engineering analysis during design, BIM can also be used to analyze the operating performance of the building.



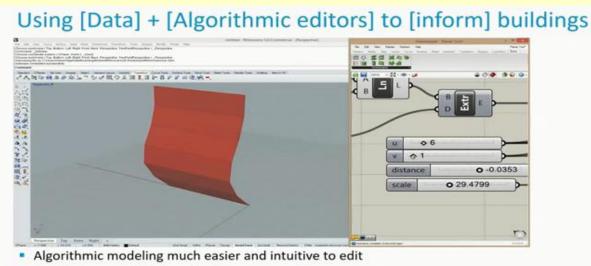




Panels planar and Rationalized



### **BIM Design: Algorithmic Modeling**



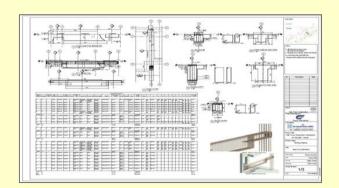
▲ AUTODESK UNIVERSITY 2016

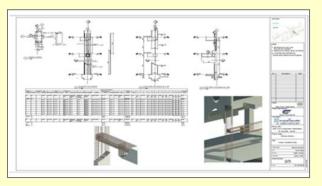
# **Visualization**

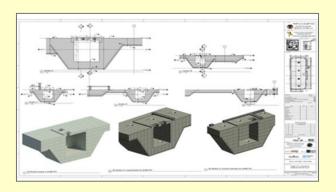


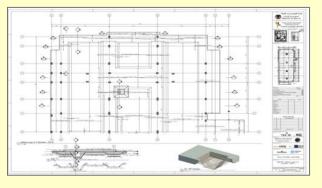
One fundamental benefit of BIM relates to its capacity to create visualizations, even photorealistic images at very early stages of the project.

# **Documentation**











# **Strength & Capabilities**

The development team of CEM is equipped with proper human resources specialized in different competences tasks. The key areas are

#### ■ Engineering

Engineering team combines both functional and technical analysts. We believe to develop a proper system of which functional analysis is equally important as technical analysis.

#### Construction Management, Fit-out, and Refurbishment

Engineering team combines both functional and technical analysts. We believe to develop a proper system of which functional analysis is equally important as technical analysis.

#### ■ Project management, Cost Management and Control

Our engineering and technical staff executed the projects sticking project management professional in initializing, planning, executing, control, and closing projects. Conducting leading edge research in cost and economic modelling, we help you gain real value for money during the initial construction stage and throughout the operational life of your facility.

#### **■** Value Engineering

Value engineering / Value Management is a Creative, Function-Oriented, Organized/Systematic Team Approach whose objective is to Optimize Quality/Performance and Reduce Total Life Cycle Costs of Projects/Processes.

#### ■ Green Building (GSAS and LEED)

We have dedicated to applying green building and sustainability pursued by GSAS in Qatar and LEED internationally

#### **■** BIM and Lean Construction

In additional using software we strive to apply BIM for executed projects as well as all available modern method construction

Our integrated approach with building information modelling (BIM) is delivering major efficiencies. A good building is all about the people who design and build it, who own and operate it, but most of all, who use it. A good building is simple to create, operate, adapt and ultimately, it's cost-effective over its lifecycle; it respects its environment; and it is appropriately functional.

#### ■ Contract Management

Our contract advisory consultancy provides the best influence possible. Key services include contractual advice, procurement, project recovery, claims, adjudication, arbitration, dispute management, dispute resolution and expert witness services.





# II. Dashpro Solution& Mobile App

for Project & Construction Management

DashPro is a system that aggregates the outputs of different project systems during projects execution. The system then reports updates of different project management KPIs to the decision-makers continuously.

DashPro offers different data views, which vary from the 5D screen and Dashboard presentation screen of project results up to the moment.

Thus, the system supports decision-makers in dealing with internal and external risks and identifies the area of improvement that influences the success of the project and its economic feasibility indicators. The system provides great flexibility to fulfill the different needs of various customers while delivering their construction projects.



# **DashPro System Features**

- Project and Construction Management
- 5D-based solution (solution, time and cost factors dynamically added on 3D building models)
- DashPro System is a cloud-based solution that enables all project's stakeholders to access the status of their project's at any time.
- Convenient solution price.
- Customizable user-friendly interface.

Faster development of building's and Infrastructure's 5D models.

#### **Added Values**

 DashPro is a novel solution aiming to support decisionmakers while responding to projects risks and issues with important outputs.





# III. Style for Multimedia Services

- Style is a media unit that provides multimedia-related services to small businesses and big corporations.
- Our services include video production, content writing, press releases, social media coverage, design consultation, venue scouting and even event management.





### **Video Production**

#### **Progress Reports**

- Interview with Site Manager
- Drone Shooting
- Time-lapse
- Animation
- Graphics
- Script Review
- · Voice-over.



#### Goals

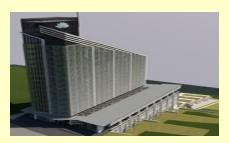
- Exhibit project's completed phases.
- Highlight project's importance.
- Show the project is developing over time.



# **Sample Projects**







Lotus Tower – Istanbul Value: QAR USD 150m Location: Istanbul - Turkey CEM Scope: Project Management – Design Review Dashpro Project Management Solution Services



Novotel Hotel & Residential Building Value: QAR 22m Location: Al Wakra Hospital - Qatar

Location: Al Wakra Hospital - Qatar CEM Scope: Project Management – Design Review - Dashpro Project Management Solution Services



Waterpark – Qetaifan Island North Value: 975M QAR CEM Scope: shop drawing, Dashpro Project Management Solution Services



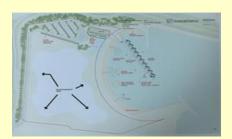
Vendome Mall Roads and Bridge Value: QAR 50m Location: Lusail - Qatar CEM Scope: Dashpro Project Management Solution Services



New Academy Value: QAR 250m Location: Doha - Qatar CEM Scope: Dashpro Project Management Solution Services



Majlis Grand Mercure
Value: QAR 350M
Location: Al Mansoura, Doha, Qatar
CEM Scope: Project Management —
Design Review - Dashpro Project
Management Solution Services



Qutaifia Waterfront Value: QAR 300m Location: The Pearl – Doha - Qatar CEM Scope: Dashpro Project Management Solution Services

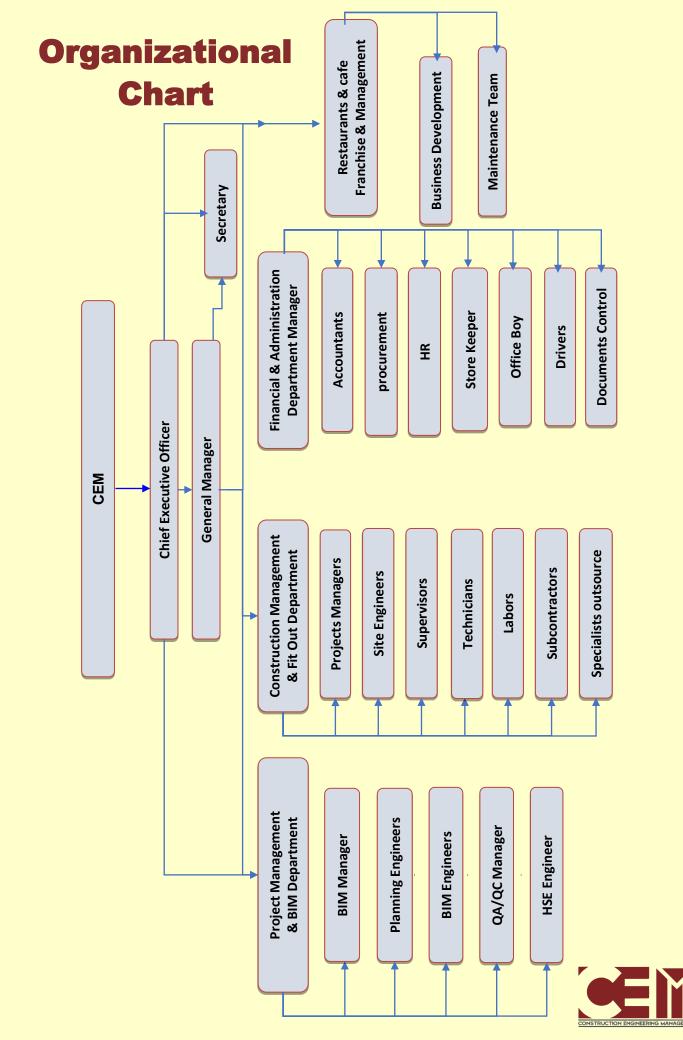


Al Khor Beach Resort Value: QAR 150m Location: Al Khor - Qatar CEM Scope: Concept Design



Health Center Value: QAR 90m Location: Al Wakra - Qatar CEM Scope: Dashpro Project Management Solution Services





#### **Accreditations**



#### Certificate of Registration

(Quality Management System)

#### **QFS MANAGEMENT SYSTEMS LLP**

This is to Certify that the Quality Management System of

#### CONSTRUCTION ENGINEERING MANAGEMENT - CEM

143 MARINA TWIN TOWER A, LUSAIL, P.O.BOX: 30132, DOHA - QATAR

Has been found to be of the Quality Management System Standard ISO 9001:2015

This certificate is valid for the following product or service range PROVISION OF BIM, ENGINEERING, CONSTRUCTION, MULTIMEDI SOLUTIONS AND PROJECT MANAGEMENT CONSULTANCY

Certificate Number: INT/2102CN/01294 Initial Date of Certification: 02.02.2021

Date of Certificate: 02.02.2021 Date of Expiry: 01.02.2022



Date: 02.02.2021

Re-certification Due on: 01.02,2024

Surv. Audit on or Before: 01.01.2022



The validity of certificate is subject to regular surveillance audit on or before above mentioned dates and its only after successful surveillance with continuation letter issued by QFS. It is issued subject to the continued availability access at any time and without notice to the above named organization's premises for the purpose of assessment and surveillance regarding the standard named above and QFS terms and conditions.

#### QFS MANAGEMENT SYSTEMS LLP



#### Certificate of Registration

(Occupational Health & Safety Management System)

#### **QFS MANAGEMENT SYSTEMS LLP**

This is to Certify that the Occupational Health & Safety Management System of

CONSTRUCTION ENGINEERING MANAGEMENT - CEM

143 MARINA TWIN TOWER A, LUSAIL, P.O.BOX : 30132, DOHA - QATAR

is in accordance with the requirement of the Management System Standard detailed below

#### ISO 45001:2018

This certificate is valid for the following product or service range PROVISION OF BIM, ENGINEERING, CONSTRUCTION, MULTIMEDI SOLUTIONS AND PROJECT MANAGEMENT CONSULTANCY

Certificate Number: INT/2102CN/01296 Initial Date of Certification: 02.02.2021

Date of Certificate: 02.02.2021 Date of Expiry: 01.02.2022



Date: 02.02.2021

Surv. Audit on or Before: 01.01.2022 Re-certification Due on: 01.02.2024



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#### QFS MANAGEMENT SYSTEMS LLP



#### Certificate of Registration

(Environmental Management System)

#### **QFS MANAGEMENT SYSTEMS LLP**

This is to Certify that the Environmental Management System of

#### CONSTRUCTION ENGINEERING MANAGEMENT - CEM

143 MARINA TWIN TOWER A, LUSAIL, P.O.BOX: 30132, DOHA - QATAR

is in accordance with the requirement of the Management System Standard detailed below

#### ISO 14001:2015

This certificate is valid for the following product or service range

PROVISION OF BIM, ENGINEERING, CONSTRUCTION, MULTIMEDI SOLUTIONS AND PROJECT MANAGEMENT CONSULTANCY

Certificate Number: INT/2102CN/01295 Initial Date of Certification: 02.02.2021

Date of Certificate: 02.02.2021 Date of Expiry: 01.02.2022

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Director:

Date: 02.02.2021

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QFS MANAGEMENT SYSTEMS LLP





#### وزارة التجارة والصناعة

Ministry of Commerce and Industry

Registration and Commercial Licenses Department

#### مستخرج ببعض بيانات السجل التجارب

إدارة التسجيل والتراخيص التجارية

رقم السجل التجارف:

تاريخ الطباعة: 2020/03/29

#### 

رقم التسجيل الضريبي: 000003123035468

الأسم التجارب: استشارات وإدارة المشاربع - سيم السمة التجاربة:

81654

تاريخ انشاء السجل: 22/03/2016 تاريخ انتهاء السجل: 21/03/2021 الشكل القانونم: شركة خات مستولية محدودة راس المال: 100000

حالة السجل: نشط جنسية المنشأة: قطر عدد الفروع: 0

مملومات الاتصال

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#### المدراء (المخولون بالتوقيع)

العفة (العلامية)	الجنسية	رقم السجل	رقم الإثبات	الأسم
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Page 1 of 2 وقم السجل: 81654

QATAR CHAMBE

تشهد غرفة تجارة و صناعة قطربان المنشاة المذكورة اعلاه سجلت وسأ

Qatar Chamber certifies that the above mentioned establishment has been registered



## **Contact Us**

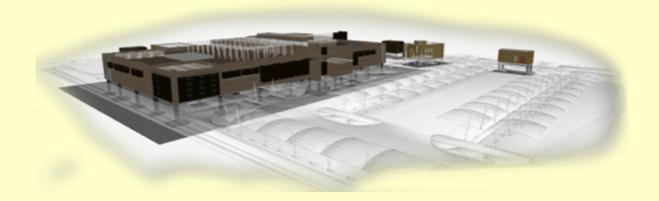
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Email: info@cem-management.com

https://cem-management.com/en/contact

https://dashprosystem.com/



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