



COMPANY PROFILE

# DG BIM AFRICA LIMITED.

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**Consultancy Using BIM Technology**  
commitment with integrity

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Uganda: Room 51, First Floor, Forest Mall, Plot 3 A2, 3A3, Sports Lane, Lugogo Bypass, Kampala Uganda. P.O Box 21641 Tel: +256-756128902  
Oman : P.O.Box 1102, PC 131, Al Hamriyah, Sultanate of Oman | Tel: +968 24819477 / 24817197 Fax: +968 24819487 / 24813810  
India : Pushpakama # 1373, 5th Floor, 32nd 'E' Cross, Jayanagar, 4th T Block, Bangalore 560041, Karnataka, India. / Tel: +91 80 26650616

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## OUR VISION

To be recognized locally and then regionally as one of the finest Architectural and Engineering consultancy firms, contributing to client success in wherever we work

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## OUR VALUES

### Respect

Respect for all people - their culture, ideas, views, knowledge and their health, safety and environment

### Integrity

Integrity is non-negotiable. We don't do it if it compromises the individual or the company's integrity. In particular, we will not compromise on ethics & professionalism either within our organization or in doing business with any of our clients or suppliers

### Innovation

Challenge and seek to find a better solution, think creatively and dare to do things differently. Be innovative and creative - don't just do it because we did it yesterday

### Collaboration

Redefine the way our business works by truly sharing knowledge, building on this and drawing insights. Through teamwork we value the insights of others and build on them - we must truly take the time to help

### Excellence

We strive for excellence in all we do. It is evident not only in the services we deliver, but in how we deliver them. Our employees embody excellence - whether it be in the decisions they make or the service they deliver

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Design Group Engineering Consultants LLC is registered in Oman as an Excellent Grade company. DGEC is a consulting firm dedicated to designing buildings that create good function and inspire beauty while demonstrating fiscal accountability.

We are also pleased to introduce ourselves as one of the most experienced advanced service providers for the construction industry, using BIM Technology with all verticals viz. Architectural, Structural & MEP. Our team has more than 20 years of experience in handling local and international projects.

In addition, we have recently acquired the **MEP Division of Majan Engineering Consultants**, thus making us complete Engineering and Architectural service providers under a single roof.

We draw our strength from our team of young, talented, highly qualified professionals in an environment where our professionals feel proud and are eager to be part of an excellent team. Employees are continuously presented with opportunities to use and expand their diverse skill sets and stay up to date with the latest design and construction methodologies. We have a group of an extremely high caliber core team. Team spirit and a sense of belonging are strong driving factors behind most of our activities. The work culture and management style here encourage respect, humility, strong work ethics and an opportunity for continuous learning.

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# OUR LOCATIONS



## Uganda, Oman & India

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### DGEC- KAMPALA

P.O Box 34522, Plot 2/16,  
Mapeera Road, Nalukolongo  
Kampala, Uganda

E-mail: [info@dgcon.com](mailto:info@dgcon.com)

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### DGEC-MUSCAT OFFICE

P.O Box 1102, PC 131,  
Sultanate of Oman  
Tel: +968 24819477 / 24817197  
Fax: +968 24819487 / 24813810

E-mail: [info@dgcon.com](mailto:info@dgcon.com)

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### DGEC-BANGALORE OFFICE

"PUSHPAKAMA" #1373, 5th Floor  
32 'E' Cross, Jayanagar 4th 'T' Block  
Bangalore 560 041, India  
Tel: 080 266-50-616 Fax: 080 266-50615

E-mail: [info@dgcon.com](mailto:info@dgcon.com)

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# DGEC – ACHIEVEMENTS



## Awards:

We were crowned **'BEST CONSULTANT'** at the inaugural Oman Construction Week Awards held at the Grand Hyatt Muscat on 27 March 2012. One of 13 winners on the night, our work on the Royal Opera House, Muscat (ROHM) was picked up for special mention.



# DGEC – ACHIEVEMENTS

## National winners named for 2015 MEED Quality Awards for Projects

### Al Siraj Logistics & Warehousing

**Entrant:** Al Siraj Holdings  
**Project Owner (Company):** Al Siraj Holdings  
**EPC Contractor(s):** Dolphin Trading & Contracting Company  
**Consultant(s):** DGBIM  
**Architect(s):** Waleed & Partners

A state of the art modern warehouse built with the latest technologies supporting the Supply Chain sector of Oman. We look to build sustainable warehouses in the forthcoming year and add to the growth of GDP of Oman. We are definitely growing, this means that we also need to support young SME who wish to partner with us and grow along. For us, success is building sustainable warehouses which can contribute to the National needs and at the same time empower local youth in training them in specialised fields.



### Small Project of the Year

- **Bahrain:** Awall Oil Field **Entrant:** New Water Corporation (NWC)
- **Kuwait:** Structural renovation of the Grand Mosque **Entrant:** Pace
- **Oman:** Al-Siraj Logistics & Warehousing **Entrant:** Al-Siraj Holdings
- **Saudi Arabia:** Aramco Psychiatric Facility **Entrant:** Shade Corporation
- **Saudi Arabia:** 95 MW Temporary Power Plant in Al-Kharj **Entrant:** Zahid Group of Companies
- **UAE:** SP229 C1-C2 BHS Link Enclosure **Entrant:** Blit Touq Fire & Safety

# DGEC – ACHIEVEMENTS



We were shortlisted as the finalists for **Construction Week Oman Awards 2016** in three categories: Consultant of the Year, Infrastructure Project of the Year and Project Manager of the Year.

A selection of some of Oman’s influential decision makers were present to celebrate the achievements of construction professionals from across the country. The awards were distributed to recognize and reward individual excellence, corporate prowess, sustainable efforts, and project success.

- > Consultant of the Year**
  - Atkins
  - > Design Group Engineering Consultants (DGEC)**
  - Driver Consult Oman LLC
  - Hoehler + Partner
  - KEO International Consultants
  - KGDMT
  - Parsons
  - SSH
  
- > Project Manager of the Year**
  - Adam Dillon – SSH
  - > Damodar R Katti – Design Group Engineering Consultants (DGEC)**
  - David Green – KEO International Consultants
  - J Karthikeyan – Larsen & Toubro (Oman) LLC
  - Lee Pitcher – Driver Consult Oman LLC
  - Mark Bruno – KEO International Consultants
  - Muatasim Al Kindi – Hoehler + Partner
  - Vladimir Opricovic – Parsons
  
- > Infrastructure Project of the Year**
  - Amrat-Mabella 2 Grid Station – Larsen & Toubro (Oman) LLC
  - Farq-Marfaa Deris Road Dualization (Wilayat Nizwa)
  - Saraya Bandar Jissah Infrastructure Project
  - > SBA Sohar Free Zone – Design Group Engineering Consultants (DGEC)**

# WHY DGE C ?

We believe that great design is synonymous with sustainable development and high performance buildings. Our design process is collaborative and multi-disciplinary, resulting in innovative environmentally friendly solutions.



## FORWARD THINKING WITH EFFICIENCY AND RESPONSIBILITY IN MIND.

The design should primarily encompass the following:

1. Process flow
2. Onsite utilities
3. Space management
4. Adjustment to future expansions
5. Maintenance & operational requirements

An effective design must take into account the 3 'Ms', mainly, Men, Material & Machinery.

DGEC takes all of these issues into account, when creating an effective process/building design for your organisation. We have experience in all kinds of layout designs and we have produced and implemented designs for a variety of different layouts. Firstly, we will process/map your overall operations by collecting process flow information and supporting data on inter-departmental transactional processes, planning constraints, future plans and of course, the proposed budget for the new facility.

We develop a layout that integrates all the above factors in a 3 Dimensional way which helps in visualizing the process, related utilities & facility, enabling better understanding and hence creating an effective design.

# OUR SERVICES.....

from Concept ( Start ) to Completion ( Finish ) :

- Architectural detailing including 3-D modeling.
- Structural design for all kind of structures; i.e. RCC, Heavy Machine Foundations, Steel, etc.
- Mechanical, Electrical and Plumbing Design.
- Fire Fighting Design, Compliant with NFPA & local norms.
- HVAC and Refrigeration Design.
- Detailed Design of the Building / Infrastructure for Design and Build purposes.
- Design and Coordination of Ancillary Requirements.
- Utility Design.
- Tendering & Evaluating.
- Project Managing till Commercial Close-out.

**Liaison and getting approvals from all relevant Authorities, Departments etc.**

- (includes but not limited to) :-
- Ministry of Housing.
- Civil Aviation.
- Fire fighting & Life Safety Departments.
- Ministry of Tourism.
- Ministry of Transport & Communications.
- Local Electricity Boards.
- Local Municipalities.

## SECTORS



Commercial



Residential



Government



Industrial



Healthcare



Hotels & Resorts



# OUR CLIENT FOCUS

We believe that communicating with clients and listening to what they need is important to achieve an accurate design. The satisfaction of grasping the requirement and making it constructable is vital in moving forward and for development.

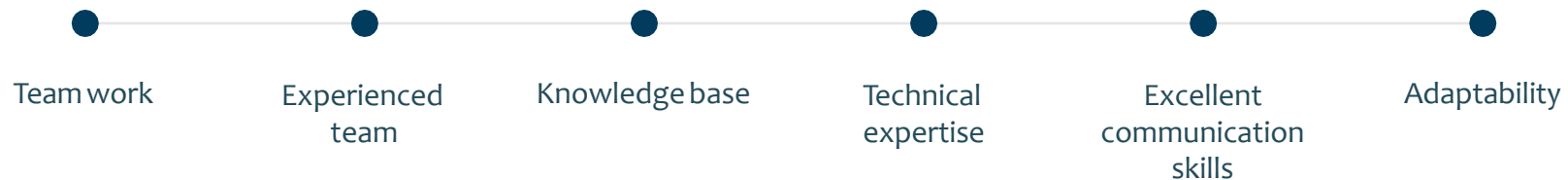
Getting the design right in the first instance is a very crucial step of understanding which reduces wastage in cost & time, leading to Lean Construction adaptation. Our clients are major companies operating in Oman, India, UK and UAE. Most have extremely demanding schedules and very high expectations and as a consequence, DGEC is structured to effectively meet these requirements.



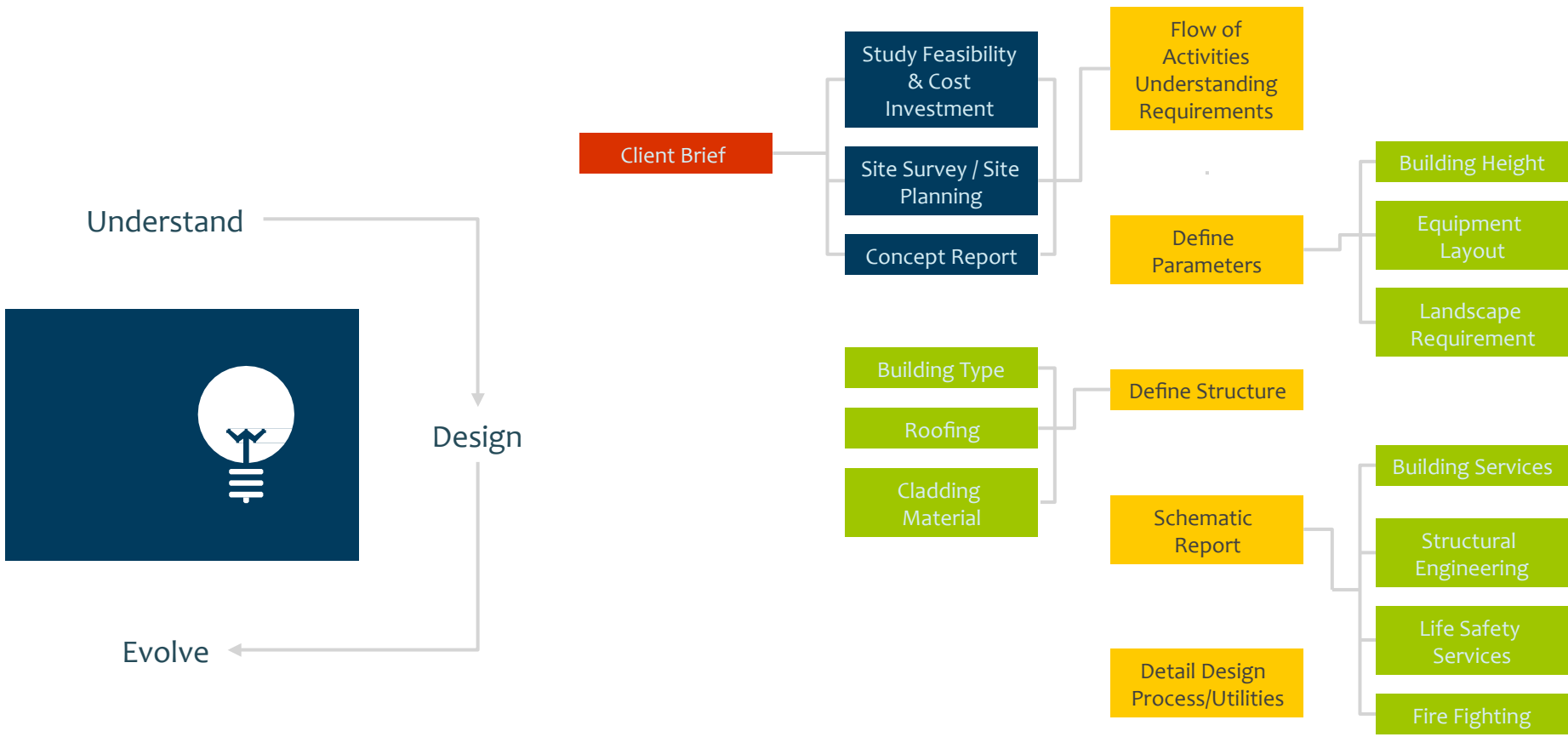
Extensive knowledge of our core business has been achieved through fair practice and dedication with a variety of challenging and diversified projects.



Key factors that we pride ourselves on are our:

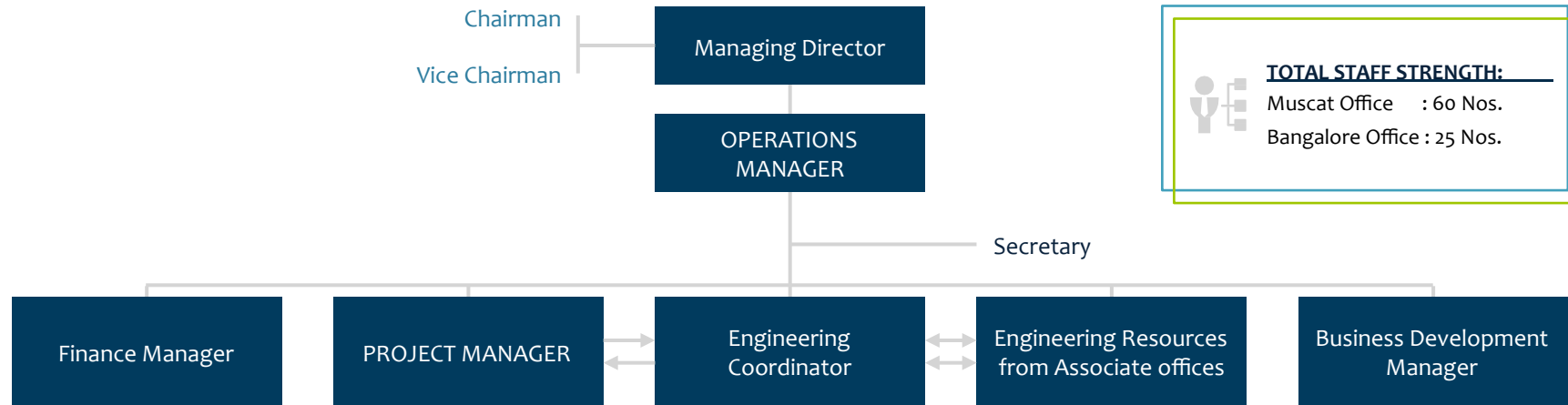


# DESIGN APPROACH



Prepare DPR, Tender Documents & Evaluate, award and manage the construction phase till commercial close out.

# ORGANIZATION CHART



**TOTAL STAFF STRENGTH:**

- Muscat Office : 60 Nos.
- Bangalore Office : 25 Nos.

Project manager	Engineering coordinator	Engineering resources from associate offices	Business development manager
<ul style="list-style-type: none"> <li>• Manager Construction Supervision</li> <li>• Quality Group</li> <li>• Safety Group</li> <li>• Project Coordinator</li> <li>• Document Controller</li> <li>• IT &amp; Systems Administrator</li> </ul>	<ul style="list-style-type: none"> <li>• Architectural</li> <li>• Civil / Struct Engineer</li> <li>• Electrical Engineer</li> <li>• Mechanical Engineer</li> <li>• Fire Fighting Design Engineer</li> <li>• BIM Engineers</li> </ul>	<ul style="list-style-type: none"> <li>• Process Draftsman</li> <li>• Civil Structural Draftsman</li> <li>• Electrical Draftsman</li> <li>• Mechanical Draftsman</li> <li>• Fire Fighting Design Draftsman</li> <li>• BIM Modelers</li> </ul>	<ul style="list-style-type: none"> <li>• Civil / Architectural Engineer</li> <li>• Engineer MEP</li> <li>• Architectural Draftsman</li> <li>• Site Engineers</li> </ul>
		<ul style="list-style-type: none"> <li>• Bangalore</li> <li>• Uganda</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing &amp; Proposals Group</li> <li>• Estimation &amp; Prebid Engineering</li> </ul>



# FEW PROJECTS

## HOTEL PROJECTS EXECUTED IN OMAN

- Refurbishment of Sheraton Hotel
- Al Khairan Hotel Resort & Spa
- 4Star Hotel at Azaiba
- Plaza Hotel
- Salalah Hotel
- Yiti Beach Hotel
- Chedi Hotel (Storm Damage)
- Centro Hotel Sohar
- Barr Al Jissah
- Al Aynt Muttrah Hills Resort
- Lekhwair Motel
- Oman Sheraton Ball Room Ext
- Hotel at Marsa Al Abyad Muscat
- Macdonald's Outlet Seeb
- Resort Hotel at Barka
- Ghobra Hotel
- Resort Hotel at Sohar
- Ghobra Hotel
- 3 Star Hotel at SAQ for H E Sayyid Abdul Al Busaidy
- Al Sawadi Refurbishment
- Gulf Hotel Refurbishment
- Gulf Hotel Refurbishment
- 40 Room Hotel at Sur
- Yiti Beach Chalets
- Yiti Beach Resort
- 4 Star Hotel at Sur
- Extension of Restaurant in Hatat House
- Restaurant at Shatti Al Qurum
- Hotel at Muttrah Corniche
- Fast Food Outlet at Shatti Al Qurum
- Hotel at Nizwa
- Hotel At Shatti Al Qurum

# SHERATON HOTEL



Project : Refurbishment of one of the oldest hotels in OMAN  
Scope : MEP Design & Project Management  
Project Value : R.O. 12,000,000  
Client : Al Hashar + LULU

## Description

The project had been stopped for almost 8 years with issues related to litigation, contractors' claims, resolving unfinished works, designing the multilevel car park etc.

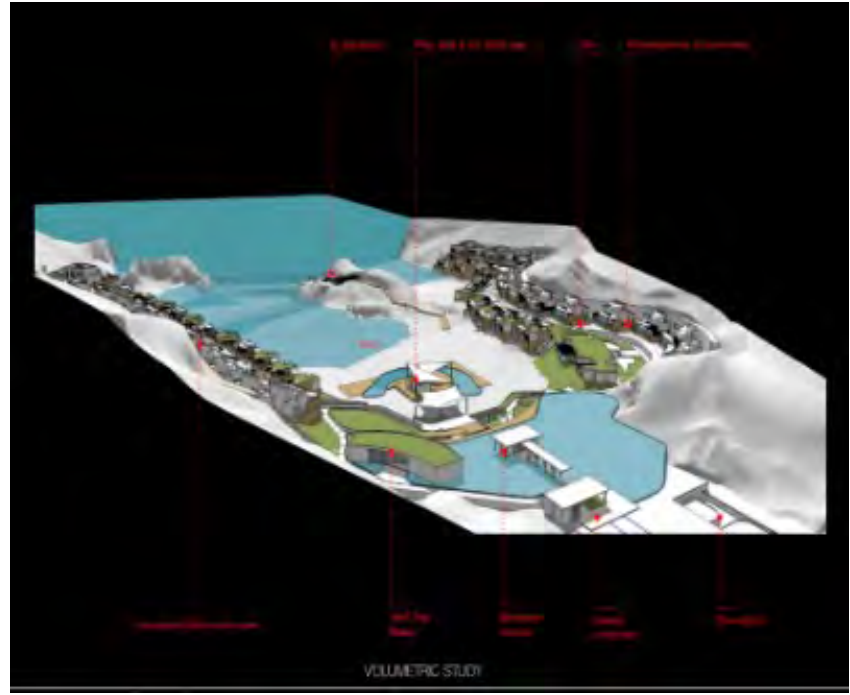
Within a span of 16 months we have resolved most of the claims, designed the unfinished works, provided work front to all the contractors and completed the renovation works including designing a new multilevel car park, Admin building and a F&B building.

# BANDAR AL KHAIRAN HOTEL, RESORT & SPA

located within a prime and exceptional natural location “Bandar Al Khairan” protected by Royal Decree No.45/2007, which bans establishment of any tourism, economic or any other project within this protected area. Consequently, Al Khairan Hotel Resort & Spa will be the single and unique development in the area. The hotel will be operated by “Cheval Blanc”, the hospitality brand of Louis Vuitton Group. Al Khairan Hotel Resort & Spa is aiming at being an exclusive ultra-luxury boutique hotel (40 rooms) in Oman and in the Middle East.



Project : Integrated Project Complex with signature chalets  
Scope : MEP design  
Project Value : OMR. 20,000,000  
Client : Mustir Properties



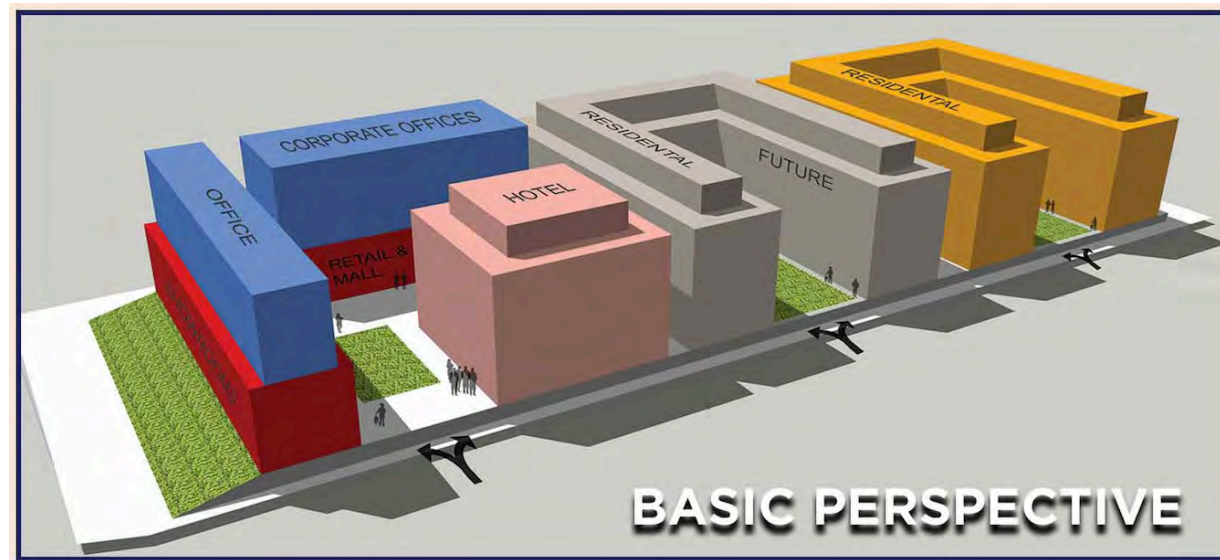


# CONCEPTUAL DESIGN FOR MIXED USE

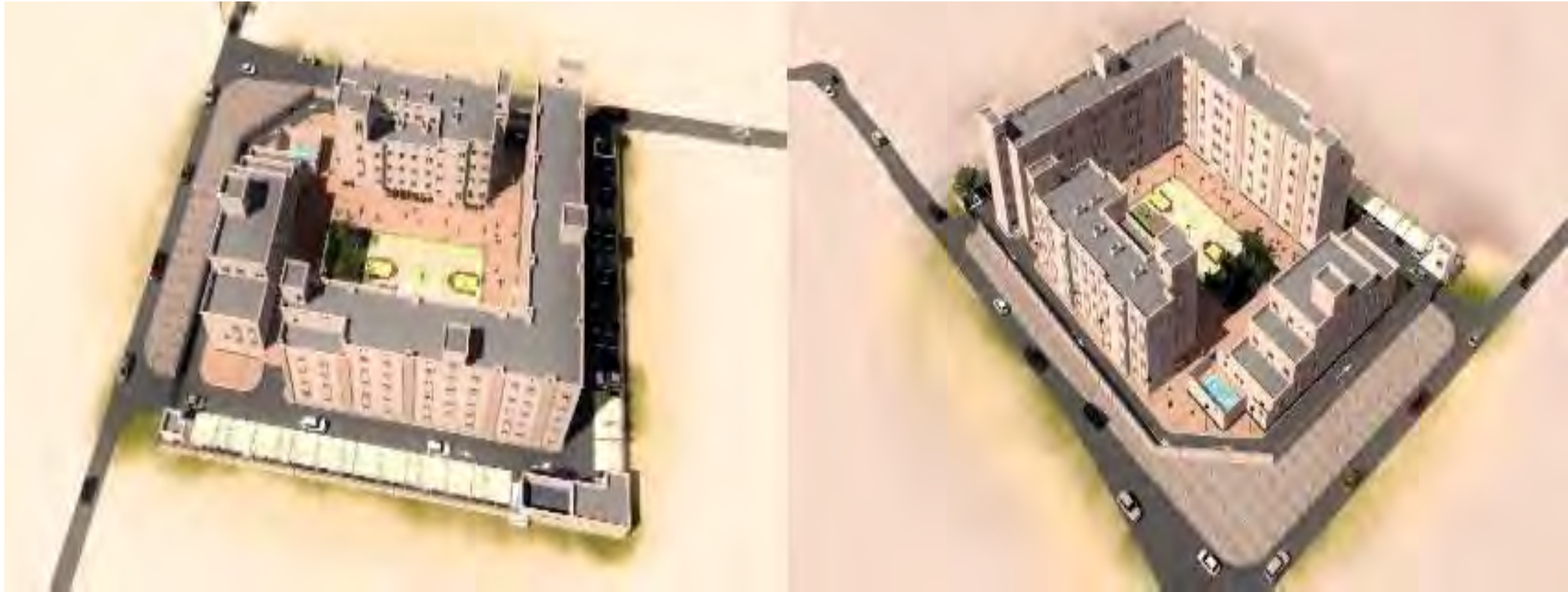


Project : Concept preparation for BEC head office building  
Scope : Competition Assignment  
Client : Bahwan Engineering Company

# CONCEPTUAL DESIGN FOR MIXED USE



# ACCOMMODATION BLOCK FOR SHAZA HOTEL SUPPORT STAFF, IN SALALAH.



Project : Accommodation Block for SHAZA Hotel Support Staff in Salalah.  
Scope : Architectural, Structural, MEP & Supervision  
Client : Al Sedrah Real Estate.

# 500 HUNDRED SEAT THEATRE



Project : 500 Hundred Seater Theatre  
Scope : MEP Design  
Project Value : OMR. 30,000,000  
Client : Royal Court Affairs

## Description

Being developed in a prime location to compliment the existing Royal Opera House. It houses a theatre & state of art Music library including air conditioned pedestrian bridge connecting with the existing Royal Opera House.

# MALL DEVELOPMENT



Project : Retail development in the heart of MSQ  
Scope : MEP Design  
Project Value : OMR. 10,000,000  
Client : Towell Properties

## Description

Project involved managing the existing tenants and in parallel developing the plot with modern utilities with antique aesthetics.

# DHALKHOOT HOSPITAL

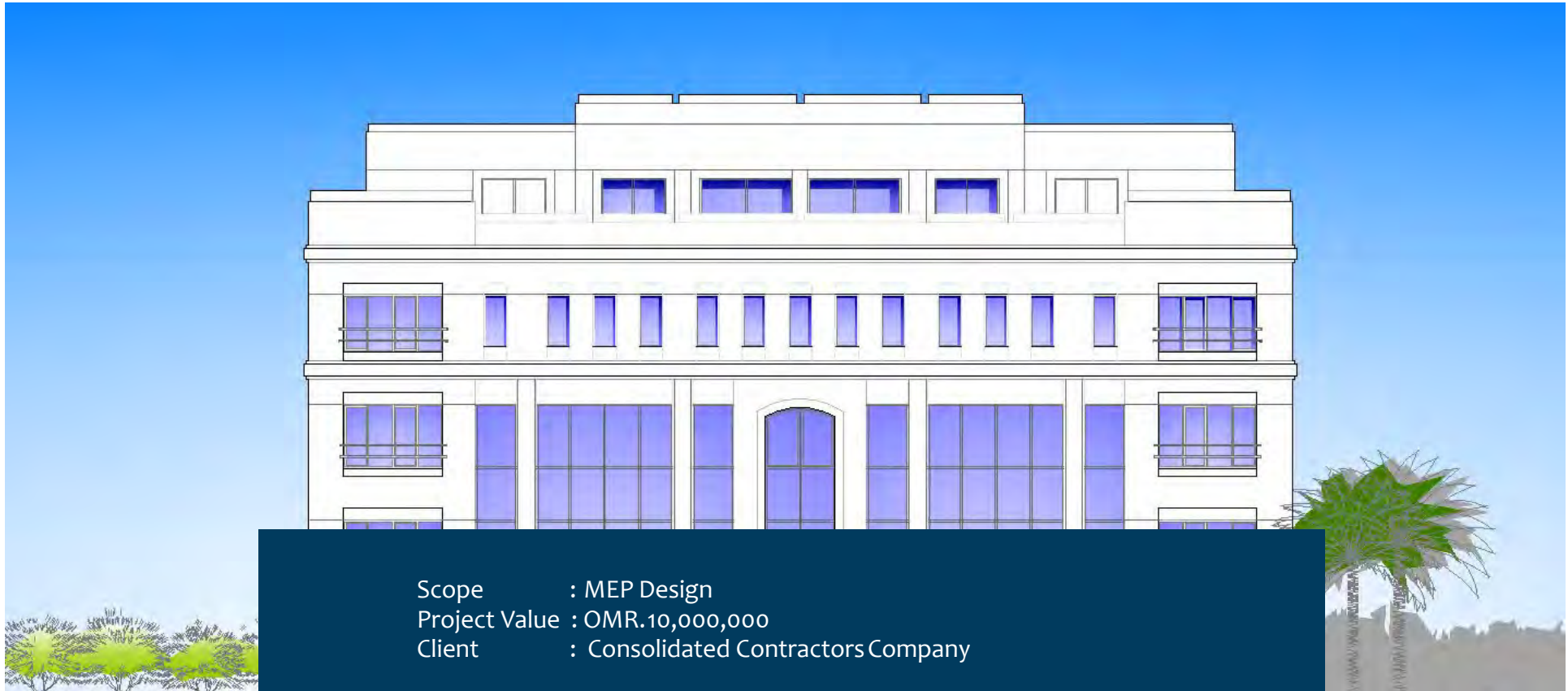


Project : 100 Bed Hospital  
Scope : MEP Design  
Project Value : OMR. 10,000,000  
Client : Ministry of Health

## Description

A state of art multi specialty 100 bed hospital located in southern region of Oman near Salalah in a place called Dhalkhoot. Dhalkhoot being a remote place; design was for hospital plus accommodation for the doctors, etc.

# CCC HEADQUARTERS BUILDING



Scope : MEP Design  
Project Value : OMR.10,000,000  
Client : Consolidated Contractors Company

## Description

CCC Headquarters is an office facility aiming for first LEED certified building. The project was designed with high standards of sustainability features which include ultra low flow fixtures, delivering 53% lower water consumption, high efficiency HVAC and glazing system, thereby resulting in 28% lower energy consumption on the air-conditioning system. The highly efficient LED lighting system is also supported with daylight harvesting system, dimming system and motion sensors, thereby resulting in lower energy consumption of the lighting system. CO2 sensors to monitor the building's ventilation and improve air quality.

# MINISTRY OF EDUCATION



Project : Head Quarters Building for Ministry of Education  
Scope : Project Management & Design Validation  
Client : Ministry of Education

Built up area of approximately 59,000 Sqm; this project was awarded to us to re-engineer from the discontinued state. The project was going slow and had completed 9 years before our involvement. We re-engineered the project with respect to sorting out the design issues, specifications, queries of contractors, helping Client to take decisions and now the project is completed. Client has occupied the building and this was achieved within 1.5 years of our involvement.



# AL MUZN LIFE STYLE SHOPPING CENTRE – MUSCAT



Scope : MEP Design  
Client : AMJAD Consultants

# DEVELOPMENT OF NEW INTERNATIONAL AIRPORT



Project : MC4A, MC3A, MC1, MC3 packages  
Scope : MEP & Structural design and implementation of BIM  
Client : Hill International

Scope involved providing design plus implementing Building Information Modeling (BIM). Main Airport building i.e. PTB, Piers, MLCP etc. were completely modeled and coordinated using BIM technology. MC4a building i.e., Headquarters building for Oman Air, was redesigned to provide value engineering options to reduce costs, etc.

# CENTRAL PUBLIC HEALTH LABORATORY, MUSCAT



Project : Research Centre of BSL 3 Category to deal with diseases like Ebola, etc.  
Scope : MEP Design.  
Project Value : OMR. 10,000,000.  
Client : Ministry of Health.

This is the first research centre of its kind in Oman. Challenges were to deal with an Accreditation Firm based in USA, end user from the Ministry of Health and the Project Team from the Ministry of Health. The site is located next to an existing hospital and as designers, we had to take care of all the hazardous entities between the two buildings. HVAC was an uphill task in terms of dealing with HEPA Filters, Venturi valves, etc. Gross built up area is approximately 15,000 Sqm.

# PROPOSED UNIVERSITY BUILDING



Scope : Architectural, Structural, Civil & MEP Design  
Project Value : OMR.3,000,000  
Client : Aligarh Muslim University, India

## Description

Challenge was to create an elevation, which would comply to modern design with elements of Islamic Architecture using locally available materials.

# MERCEDES BENZ FACILITY, SOHAR



Project : 3S Facility for Mercedes Benz with Showroom, Service Centre & Spare Parts Storage  
Scope : MEP Design  
Project Value : R.O. 1,200,000a  
Client : Zawawi Group of Companies

## Description

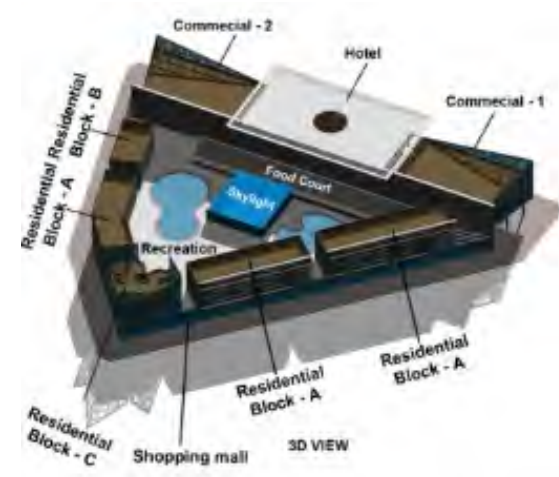
3S (Showroom, Service Center and Spare parts storage) facility in Sohar to cater to the sales in Batinah region.

# 4D THEATER



Project : A Research Laboratory to test all cables manufactured by Oman Cables Industries.  
Scope : Architectural, Structural, Civil, MEP & Project Management  
Project Value : R.O. 3,000,000  
Client : Oman Cables Industries LLC

# CONCEPT DESIGN – MASTER PLANNING



ELEVATION VIEW

Project : Mixed Use  
Development  
Scope : Architectural  
Conceptual  
Design

# PRODUCT RELIABILITY AND TEST CENTRE



Project : A Research Laboratory to test all cables manufactured by Oman Cables Industries.  
Scope : Architectural, Structural, Civil, MEP & Project Management  
Project Value : R.O. 3,000,000  
Client : Oman Cables Industries LLC



# LOGISTICS CAMPUS FOR SBGH



Scope : Proposed Concept & under financial evaluation.  
Client : Suhail Bahwan Group Holding

**Plot Area : 110,000 Sqm. Built up Area : 50,000 Sqm.**

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# BIM – BUILDING INFORMATION MODELING

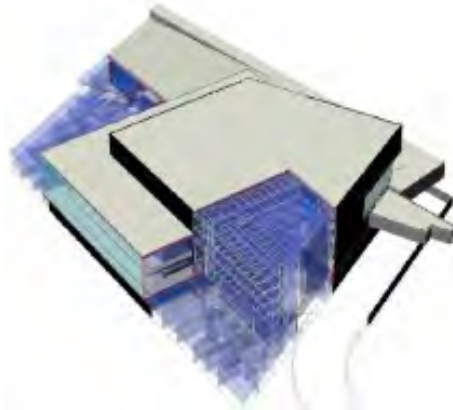


We are pleased to introduce ourselves as one of the initial adaptors of BIM Technology to service the construction industry using all verticals viz. Architectural, Structural & MEP.

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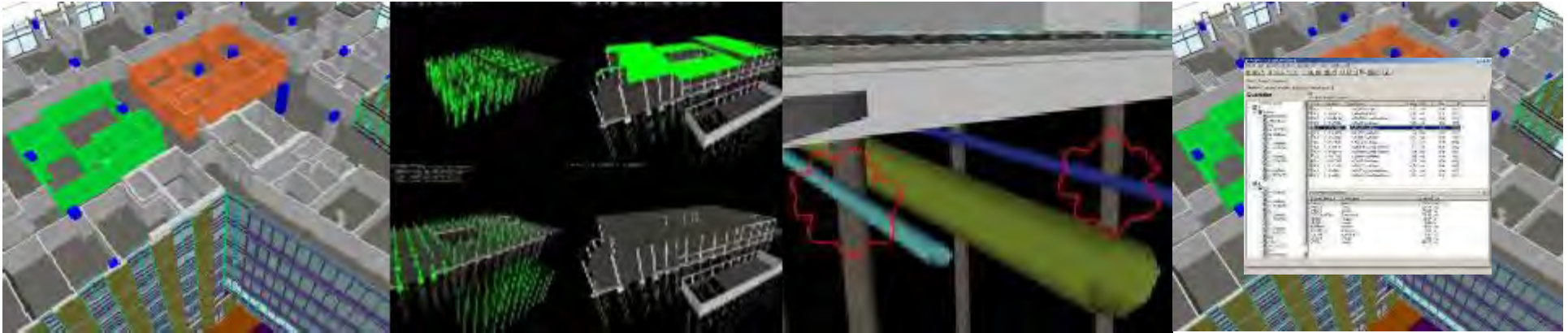
Building Information Modeling (BIM) is a methodology that gathers, models, visualizes, analyzes and simulates the performance entailed in conceiving, constructing and maintaining a ‘virtual’ building—and inextricably links it to the conception, construction, and maintenance of a real building. In another way, it is what one might label as balance between the virtual and actual of the building entity and environment.

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**By virtue of BIM Technology, we practice:**

1. Lean Construction Methodology and
2. Integrated Project Delivery



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### **Design Visualization:**

Visualize building early in the process to support and accelerate the decision making process.

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### **Schedule Visualization:**

Visualize construction process to review and optimize the construction sequence and the schedule.

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### **Design Validation:**

Integrate 3D models of all trades to identify interferences and constructability issues before they materialize in the field.

## What can be accomplished?

- ✓ Ability to **identify** collisions
- ✓ Ability to **visualize** what is being built in a simulated environment resulting in **fewer** errors and corrections in the field
- ✓ **Higher reliability** of expected field conditions, allowing for opportunity to do more prefabrication or materials offsite, which is usually of a higher quality at a lower cost
- ✓ The ability to do more “**what if**” scenarios, such as looking at various sequencing options, site logistics, hosting alternatives, cost, etc.

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# MUSCAT AIRPORT MC-03

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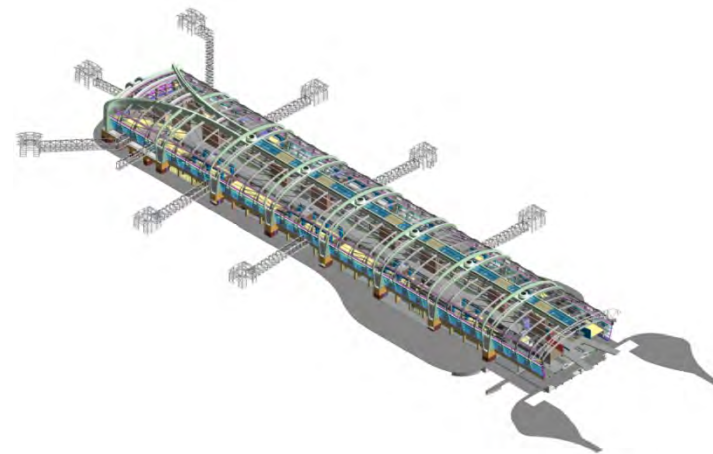
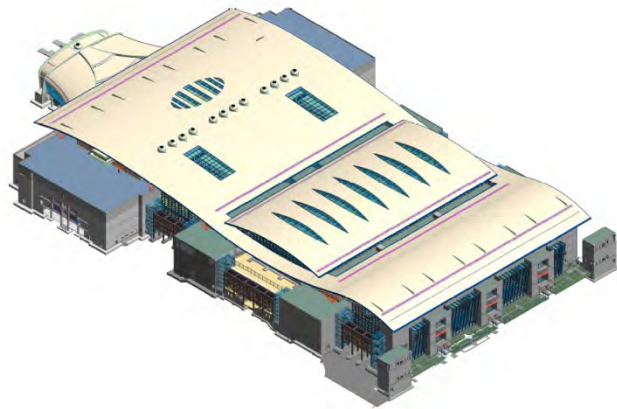
**Project : Muscat International Airport**

Scope : Building Information Modeling

Client : Bahwan Engineering Company

Description : Complete Coordination Including Facilitating Off-Site Fabrication To Ease The Erection At Site

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# MUSCAT INTERNATIONAL AIRPORT

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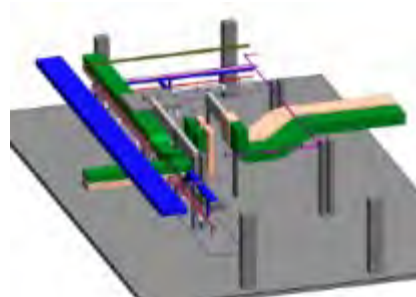
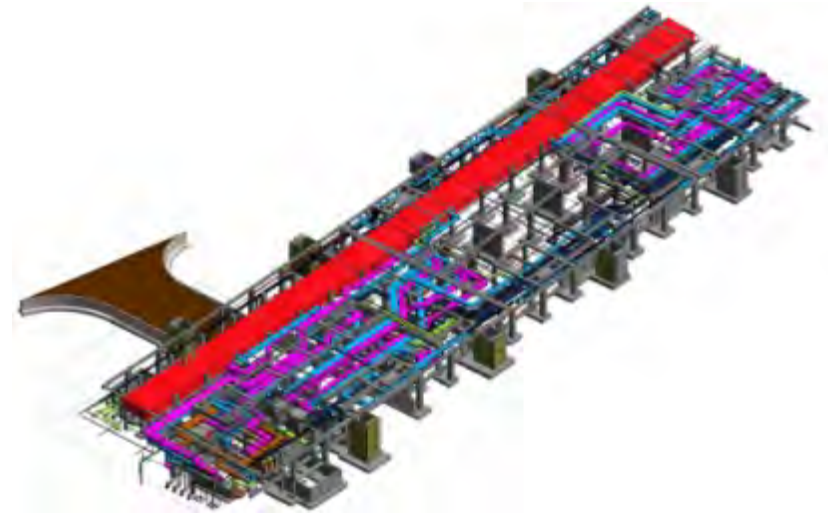
**Project : Muscat International Airport**

Scope : Building Information Modeling

Client : Bahwan Engineering Company

Description : Complete Coordination Including Facilitating Off-Site Fabrication To Ease The Erection At Site

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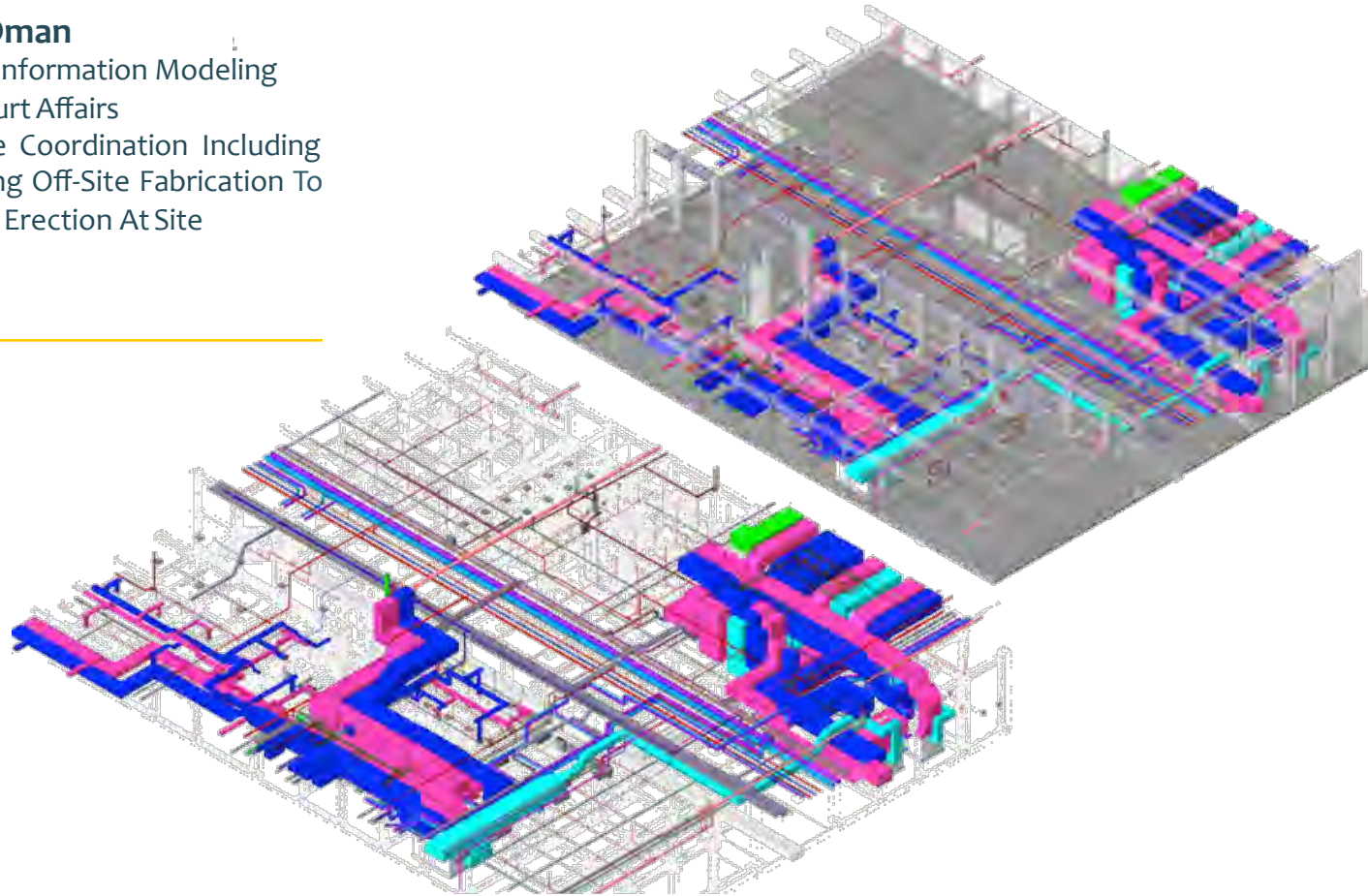
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# MAJLIS OMAN – ZONE 65 FOR ROYAL COURT AFFAIRS

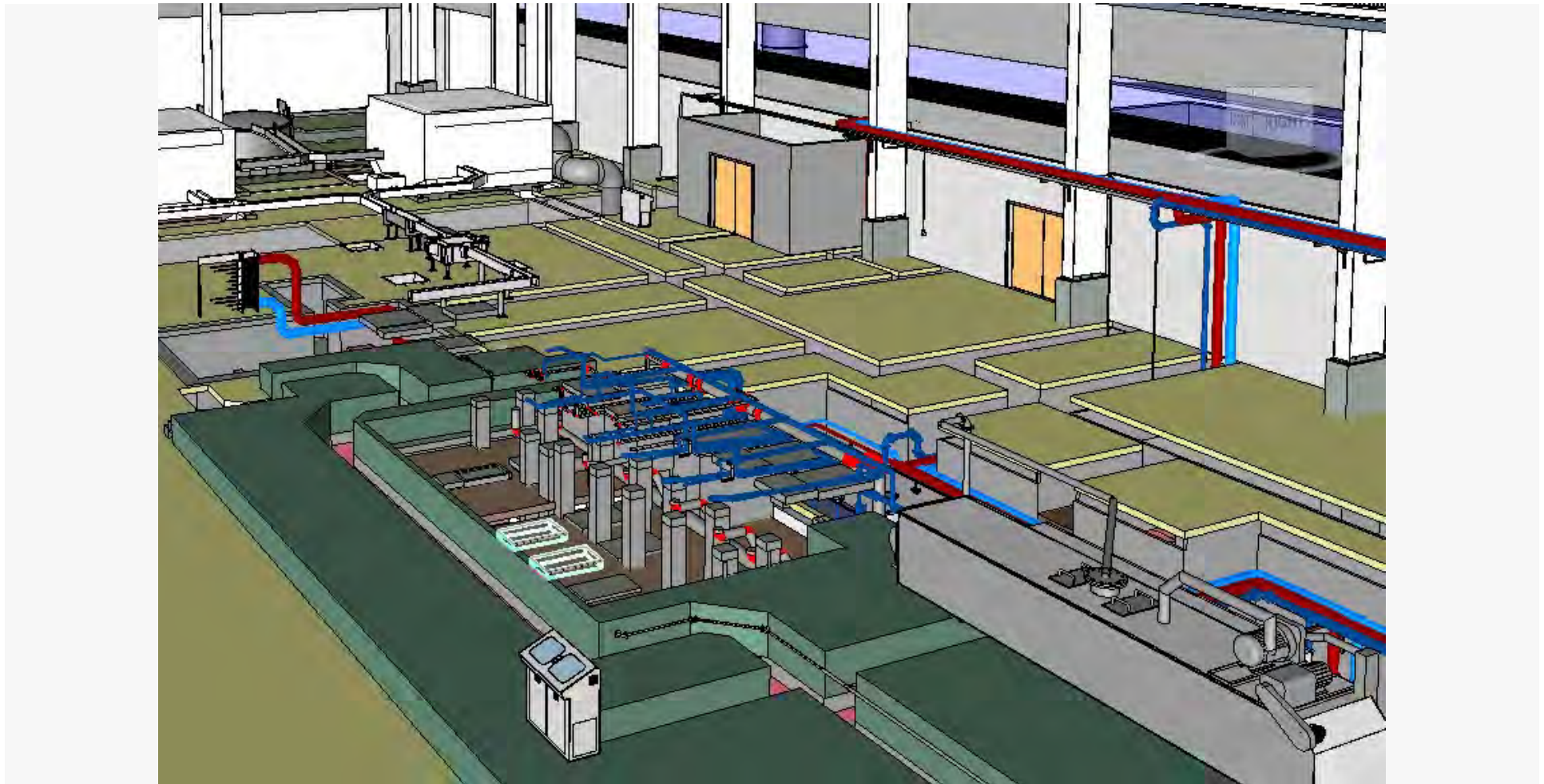
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**Project** : Majlis Oman  
**Scope** : Building Information Modeling  
**Client** : Royal Court Affairs  
**Description** : Complete Coordination Including  
Facilitating Off-Site Fabrication To  
Ease The Erection At Site

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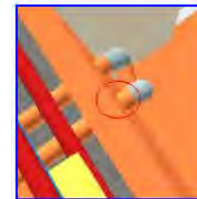
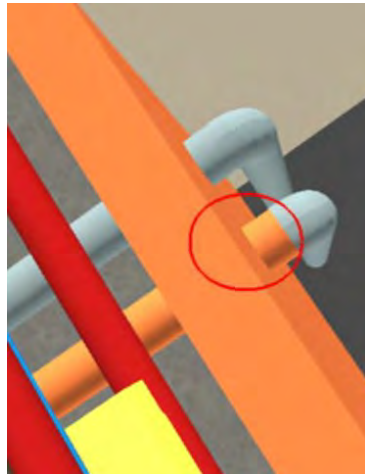


# BIRD'S EYE VIEW OF THE PLANT & MACHINERY FOUNDATION DETAILS





# CLASH DETECTION : CHILLED WATER PIPE WITH WALLS



Name  
Distance  
Status  
Clash Point  
4326.296mm

Clash10  
-352.425mm  
Active  
-449810.200mm, 168207.910mm, -

## Comment 133

Status  
User  
Text  
2010/6/17 07:25:41

Active  
thiyagarajan  
CHILLED PIPE CLASHES WITH BLOCK WALL

## MEP COORDINATION



Drainage Layout



Electrical Layout



Water Suply Layout



MEP COORDINATION

## DGEC - OMAN OFFICE - MBD AREA, RUWI



RECEPTION & WAITING AREA

## DGEC - OMAN OFFICE – MBD AREA, RUWI



RECEPTION & WAITING AREA

## DGEC - OMAN OFFICE - MBD AREA, RUWI



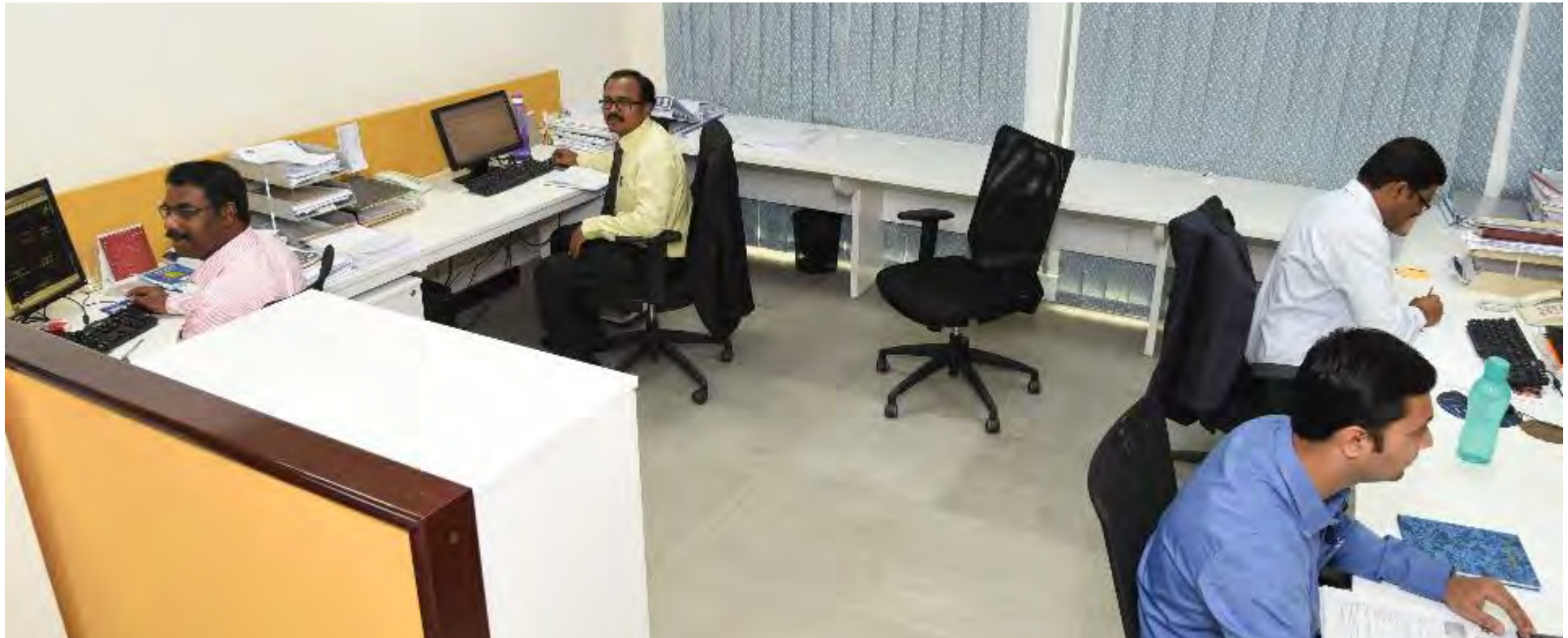
MAIN OFFICE

## DGEC - OMAN OFFICE - MBD AREA, RUWI



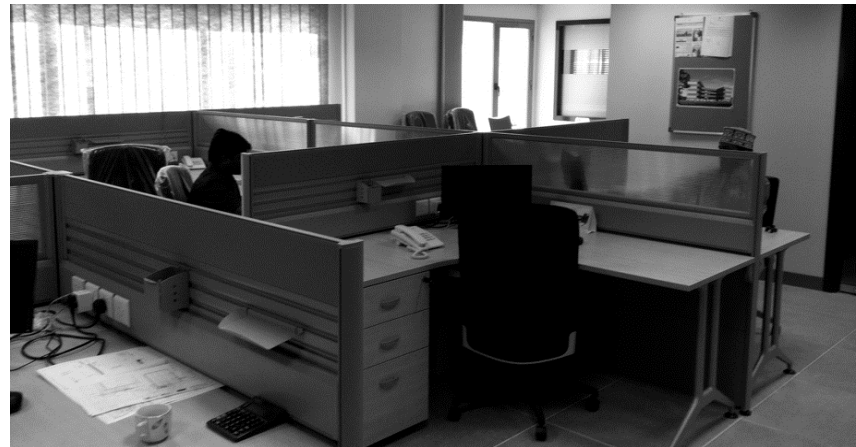
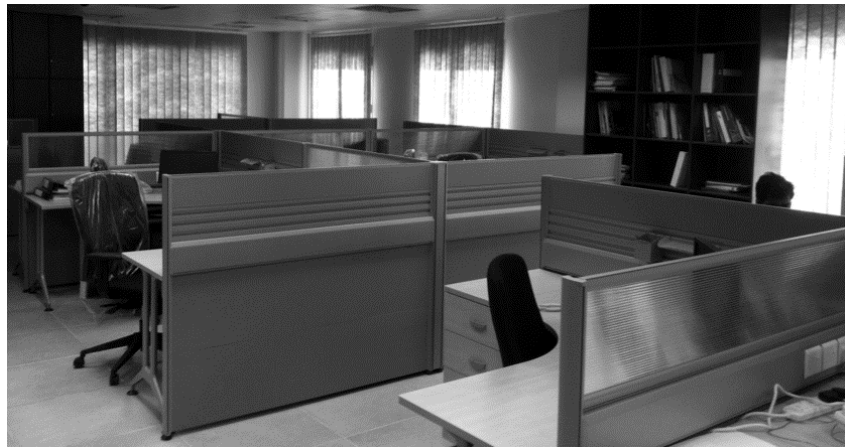
MAIN OFFICE

## DGEC - OMAN OFFICE - MBD AREA, RUWI



PROJECT MANAGEMENT SECTION

# DGEC - OMAN OFFICE





# THANK YOU

## Mr. SREE KUMAR

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CHIEF OPERATING OFFICER -  
Mob: +256756128902  
Email: [sreekumar@dgcon.com](mailto:sreekumar@dgcon.com)  
Uganda | Africa

## Mr. DAMODAR R. KATTI

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FOUNDER & GROUP MANAGING DIRECTOR  
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Email: [damodar@dgcon.com](mailto:damodar@dgcon.com)  
Oman | India | MENA

## Mr. SADIQ DIVAN

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