



## **Civil Engineering Services**



Urban Planning, Master Planning,  
Site Investigations, Feasibility Study,  
Engineering Design

## Who we are

Setup in 2000 by taking over the business of **URS/Dames & Moore** (one of the largest US engineering firms) in Lebanon

EDESSA is an acronym for “Engineering, Design and Environmental Services SA”. We are a leading marine engineering firm who has conducted numerous consultancy, design, supervision and contracting projects around the world.

We have conducted many projects in various engineering fields for dozens of clients in Europe, Africa and the Middle East. We are able to follow a project from inception to execution through:

- Strategic Studies,
- Pre-planning and master plans,
- Site evaluations,
- Engineering and design,
- Project and construction management and execution

The firm’s projects comprise a high degree of diversity including industrial facilities, commercial, tourist developments, infrastructures and wastewater treatment facilities. Our clients include leading corporations and developers, businesses and industries in the private sector, public utilities companies, architects, engineers, contractors, financial institutions and governmental agencies.

Our main area of expertise has traditionally been in the earth sciences field and has evolved to include the following general engineering fields:

### ▪ Geotechnical Engineering:

- Borehole investigation,
- Geophysical surveys,
- Seismic assessment,
- Design of foundation and retaining structures,
- Laboratory analysis

### ▪ Urban Planning

- Master planning,
- Site evaluation,
- Feasibility studies,
- Due diligence,
- Environmental assessments,
- Infrastructure studies,
- Utilities studies

### ▪ Master Plan Preparation

- Site Investigation,
- Topographic surveys,
- Geology / Hydrogeology,
- Urban analysis and planning,
- Landscaping / Land use

### ▪ Civil Engineering

- Structural analysis,
- Reinforced concrete design
- Steel structure design,
- Roadway design,
- General earthworks design,
- Topographic surveys,

## Selected Clients



# Our Values

## Quality

- 🔧 In-house QA/QC procedures
- 🔧 Pre-qualified subcontractors and suppliers
- 🔧 No compromise policy
- 🔧 Material testing and certification
- 🔧 Consulting arm is a great asset for technical solutions
- 🔧 Documents and drawings control
- 🔧 Material approval or rejection procedures

## Professional Services

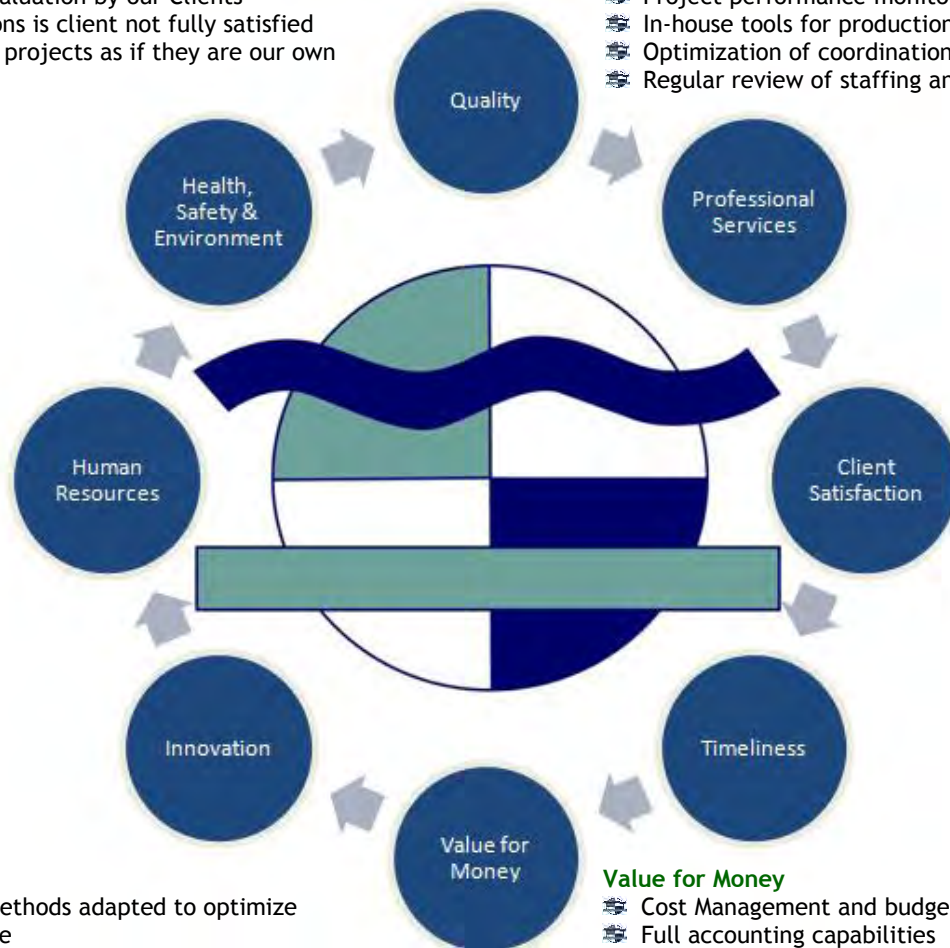
- 🔧 Project organization
- 🔧 Proper supervision with the proper tools
- 🔧 Communication
- 🔧 Daily log of activities
- 🔧 Monitor changes and inform the client promptly
- 🔧 Compliance with international standards
- 🔧 Insurances

## Client Satisfaction

- 🔧 Most of our clients are repeat business
- 🔧 Performance Evaluation by our Clients
- 🔧 Corrective actions is client not fully satisfied
- 🔧 We manage the projects as if they are our own

## Timeliness

- 🔧 We take schedule commitment very seriously
- 🔧 Project performance monitoring software
- 🔧 In-house tools for production rate tracking
- 🔧 Optimization of coordination between trades
- 🔧 Regular review of staffing and resource plans



## Innovation

- 🔧 Use of tested methods adapted to optimize Clients objective
- 🔧 Technical, financial and administrative innovation through value engineering and schedule monitoring

## Value for Money

- 🔧 Cost Management and budget tracking
- 🔧 Full accounting capabilities
- 🔧 Cash flow projections
- 🔧 Value engineering
- 🔧 Aim at reducing cost without affecting quality

## Human Resources

- 🔧 Our strength is in our staff
- 🔧 Very low staff turnover
- 🔧 Staff take pride in the projects they do
- 🔧 New Challenges on every project
- 🔧 Incentives on international projects
- 🔧 Rotation of staff to gain experience

## Health, Safety and the Environment

- 🔧 Adoption of Health, Safety and Environmental Procedures
- 🔧 Accredited staff for Green Building Design according to LEED, BREEAM and ESTIDAMA
- 🔧 Numerous environmental assessments of projects throughout the Middle East

# Our Added Values

- 🔧 Strong solution oriented technical design support
- 🔧 Understanding Client's needs and constraints
- 🔧 Aligning our objectives on the Client's objectives
- 🔧 Value engineering to optimize project design components

- 🔧 International experience
- 🔧 Ability to mobilize quickly even in remote areas
- 🔧 Working in difficult environments and countries
- 🔧 Innovation and Commitment
- 🔧 Rigorous construction procedures

# Master Planning

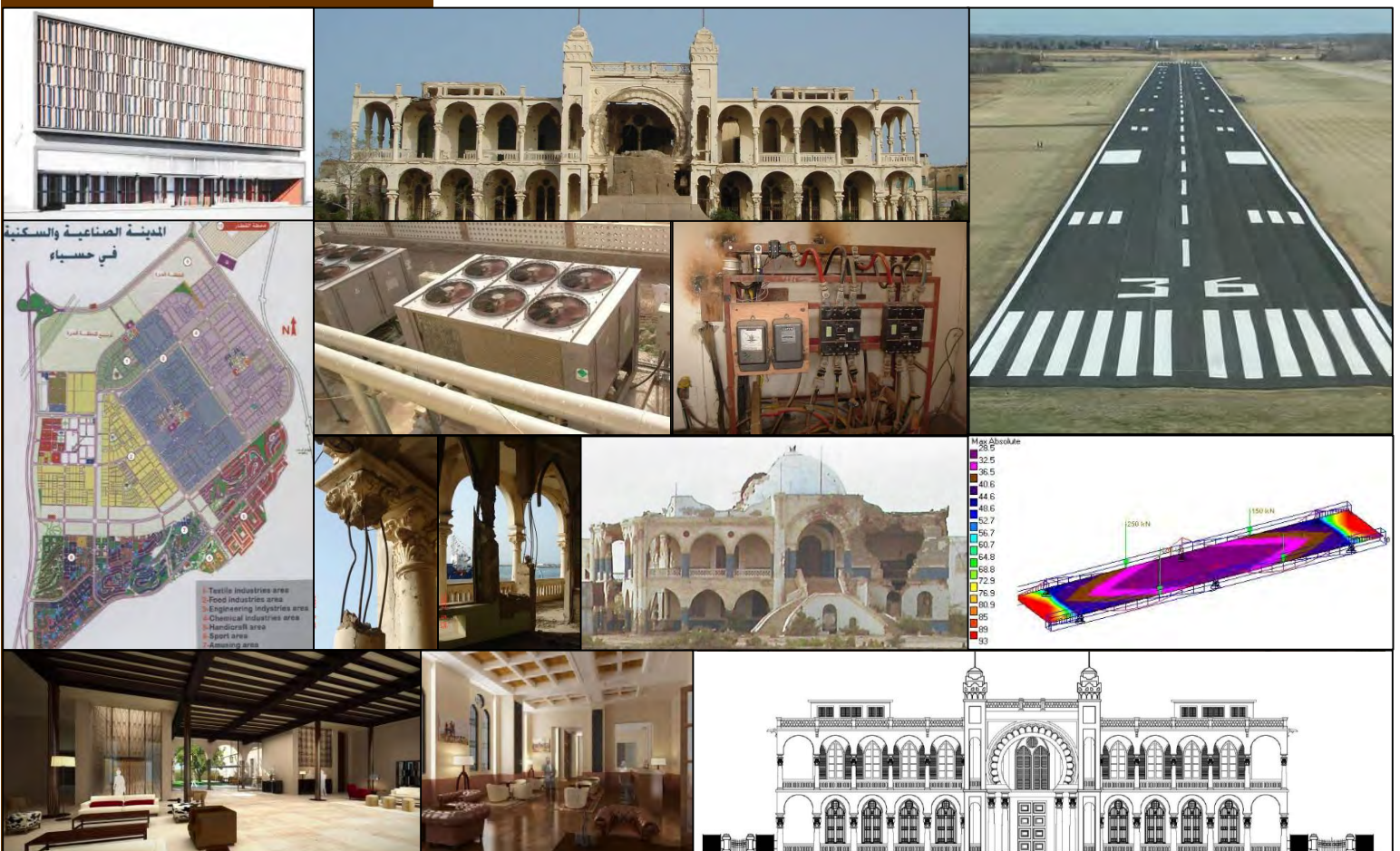
EDESSA was retained by several clients to setup a team of experts for the preparation of master plans of various sizes. The largest was the Master Plan of Dahlak Island in the Red Sea, an island the size of Bahrain. We have also conducted master plans for the old town of Homs, in Syria, a district in Dushanbe, Tajikistan and the old town of Massawa in Eritrea.



# Engineering Design

EDESSA provides a wide range of design services either using its in-house staff or through coordination with specialized sub-consultants. These design services include the following:

- Structural Engineering and Evaluation,
- Architectural Design,
- Civil Engineering,
- Mechanical Engineering,
- Electrical Engineering,
- Industrial design,
- Airport Studies,
- Infrastructure Engineering,
- Interior Design



# Geotechnical Investigations

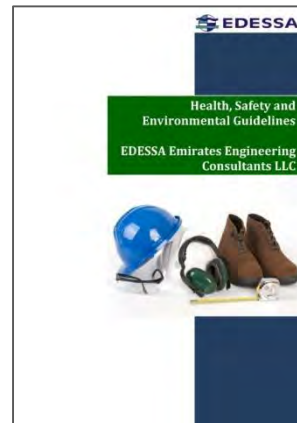
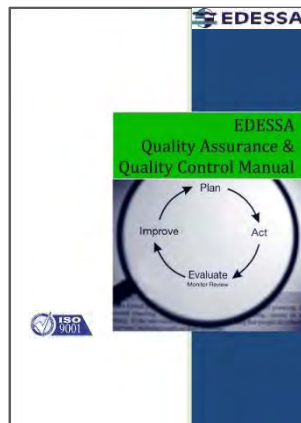
Geotechnical engineering has been the backbone of EDESSA's staff expertise. Geotechnical services are provided for a wide range of projects including marine structures, buildings, infrastructure and special facilities.

Our engineers use proven investigation techniques and a variety of computer modeling techniques. We have been called upon to find innovative solutions to challenging geotechnical projects. Our early involvement often results in cost savings and the development of strategies to avoid problems later. Frequently, geotechnical services are combined with other EDESSA services in the geosciences and environmental sciences to meet overall project needs.



- Site investigations
- Soil and rock engineering
- Deep and shallow foundation engineering
- Ground improvement and stabilization
- Slope stabilization and design
- Retaining wall and containment structure design
- Soil-structure interaction
- Earthquake loading assessment
- Soil liquefaction analysis
- Land, coastal and offshore engineering
- Geophysical testing
- Numerical modeling
- Laboratory testing
- Field testing and instrumentation
- Design reviews and consultations
- Construction monitoring

Our environmental and waste management services are backed up by strict health and safety and quality assurance and quality control programs



## QA/QC and HSE

## Selected Partners



## Prequalified with:



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