





ecap is the multi-disciplinary consulting company of STFA Group offering a complete and integrated range of engineering services including consulting, project management and design.

Civil Engineering

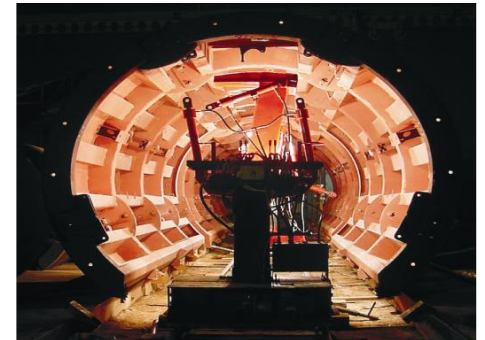
- Engineering & Design Services
- Master Planning & Feasibility Studies
- Supervision & Auditing
- Condition Assessment & Rehabilitation Analysis

Geotechnical Engineering

- Consultancy & Design for; Earth Structures, Foundations, Infrastructure & Soil Improvement Works
- Geological and Geotechnical Investigations; e.g. CPT, In-situ Tests, Pressure Meter Tests
- Monitoring of Field Tests

Marine Engineering

- Master Planning of Marine Structures
- Feasibility Studies
- Planning & Design Services
- Shore Protection Engineering
- Development of Marine Intake and Outfall Structures
- Underwater Pipelines and Tubes
- Maintenance and Repair Diagnosis



Project & Program Management

- Prioritizing Project Objectives
- Planning & Scheduling
- Resource Management
- Problem Identification & Resolving
- Budget Development & Cost Control

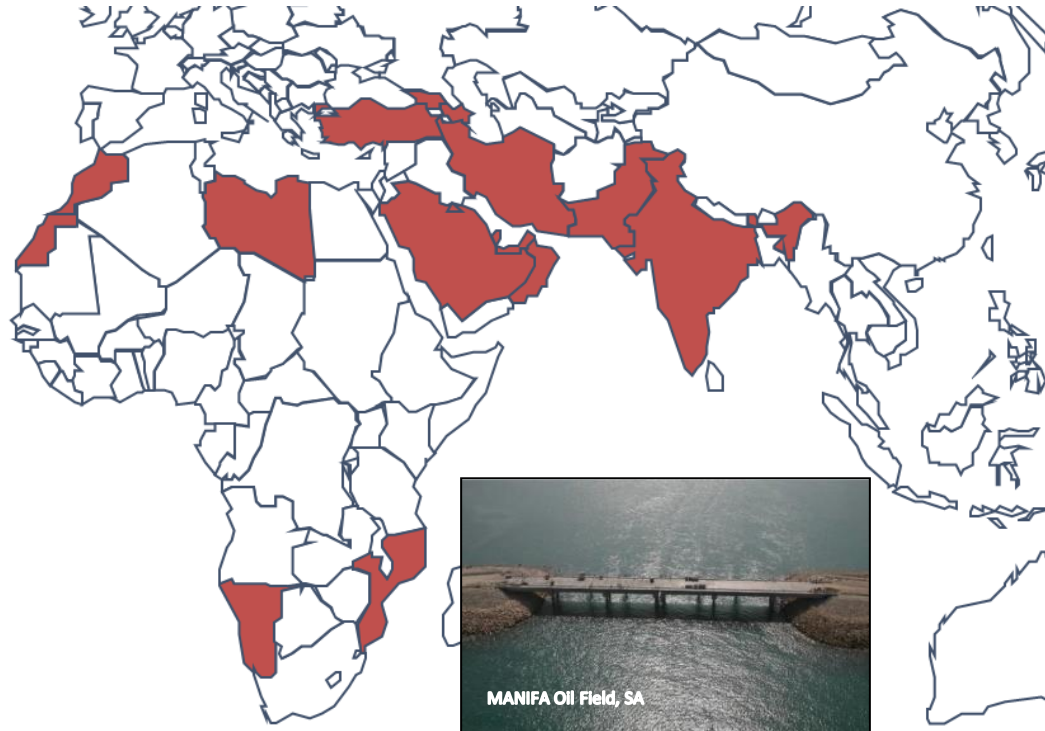
Construction Management

- Supervision of Construction Activities
- Construction Methodology Development
- Scheduling & Monitoring
- Material Management Systems
- Procurement Management
- Contract Administration
- Quality Management

Staff Augmentation

- Key Personnel Augmentation
- Experienced Field Staff
- Training of Personnel





Experience in;

- Turkey
- Azerbaijan
- Georgia
- Libya
- Morocco
- Oman
- Saudi Arabia
- Kuwait
- Qatar
- Algeria
- Namibia
- India
- Mozambique
- Iran
- Pakistan

Adopting a customer oriented approach, ECAP's Quality Management System is developed to suit in all sorts of services specific requirements. ECAP's Quality Management System is accredited to be in accordance with the requirements of ISO 9001:2015 Management System.

bsi.



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

ECAP MUHENDISLIK VE MUSAVIRLIK A.S.
STFA Is Merkezi Yesil Vadi Sokak No:3
Icerenkoy
Atasehir/Istanbul
34752
Turkey

Holds Certificate No:

FM 728652

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

DESIGN, ENGINEERING AND CONSULTANCY SERVICES FOR COASTAL-MARITIME
STRUCTURES, INFRASTRUCTURAL WORKS, ROADS&BRIDGES, INDUSTRIAL PLANTS,
BUILDINGS, TUNNELS

For and on behalf of BSI:



Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 2013-07-23

Latest Revision Date: 2022-07-08

Effective Date: 2022-07-16

Expiry Date: 2025-07-15

Page: 1 of 1



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DETAILED PROJECT INFORMATION ONGOING & COMPLETED PROJECTS

Services:

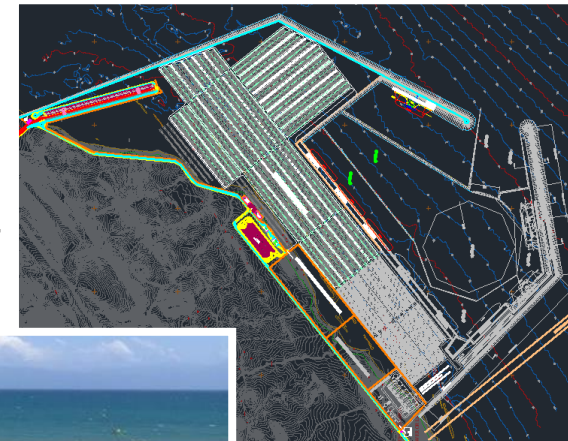
- Master Planning Services for the Port to provide; 7.6 Mio ton/year petrochemicals handling & 2.5 Mio TEU/year container handling
 - Determination of Marine Facilities Layout for Petrochemical Berths and Container Berths – app. 2,000m
 - Planning of Storage Areas/Tanks for Liquid Commodities and Containers
 - Numerical Wave Transformation and Agitation Studies
 - Cooling Water Intake and Sea Outfall Planning and Dispersion Modeling
 - Investment Phasing and Preparation of Cost Estimates
 - Geological Assessments and Quarry Search
-
- Updating of Master Plan Studies and Detailed Design of Phase 1 Marine Structures (Liquid Jetty, Breakwater, Tank Storage Area, Seawater Intake and Discharge System and Numerical Modelling of Effluent Dilution, Numerical Vessel Mooring Analysis, Numerical Modelling of Sediment Transportation and Sedimentation Potential)

Client:



Location & Date:

Yumurtalık / Turkey
2019-2020
2022-Ongoing



Services:

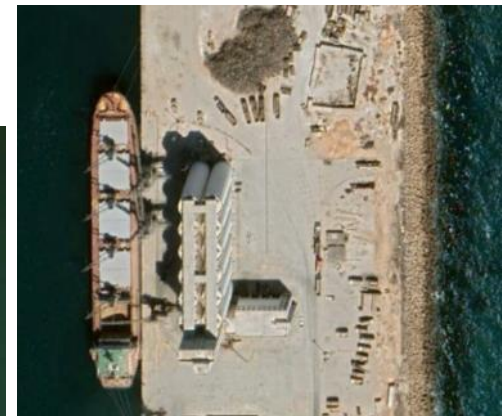
- Consultancy & Supervision Services for Phase I - Container Stockyard Construction of Berths No. 17&18&19
- Design and Construction Supervision Services for Repair Works of Oil Jetty
- Design Review and Construction Supervision Services for Rear Crane Rail Foundation for New Grain Suction Crane at Berth No:5

Client:



Location & Date:

Misurata / Libya
2022-Ongoing



Services:

- Detailed Design and Technical Consultancy Services for the Assan Off Dock-1 Container Terminal Construction;
 - Terminal Area Pavement Design
 - E-RTG Crane Foundation Design
 - Reefer Steel Gantries & Foundation Design
 - General Civil /Structural Design Works (Utility Manholes, Highmast Towers Foundation, Weighbridge Foundations, Leaking Container Pits, Internal Fencing etc.)
 - Review of Stability of Existing Retaining Walls against the loads imposed during construction period
 - Technical Consultancy during Construction Period

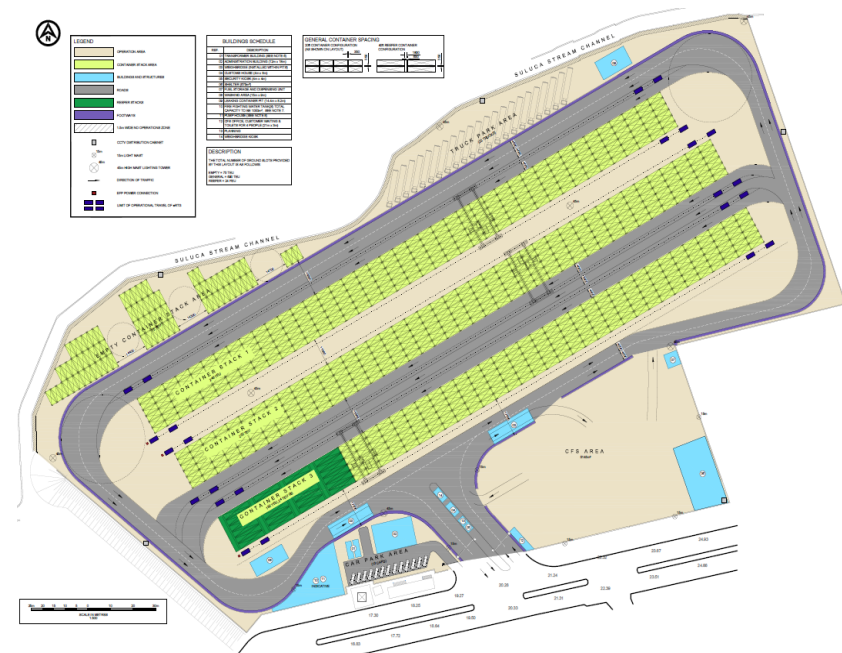
Client:

AssanPort



Location & Date:

Iskenderun / Turkey
2021- ongoing



Services:

- Detailed Design and Consultancy Services for the existing Çolakoğlu Dilovası Port;
 - Site Reconnaissance Study
 - Detailed Refurbishment Design for Berth A, Berth B and Berth C
 - Detailed Refurbishment Design for Seawater Intake Pipes
 - Detailed Foundation Design for Scarf Building, Slab Furnace, Furnace Stack and Heavy Equipment
 - Detailed Design for re-construction of Workshop Building
 - Detailed Design for Crane Foundations and Stockyard
 - Site Supervision Services

Client:



Çolakoğlu Metalurji

Location & Date:

Izmit / Turkey
2020-ongoing



Services:

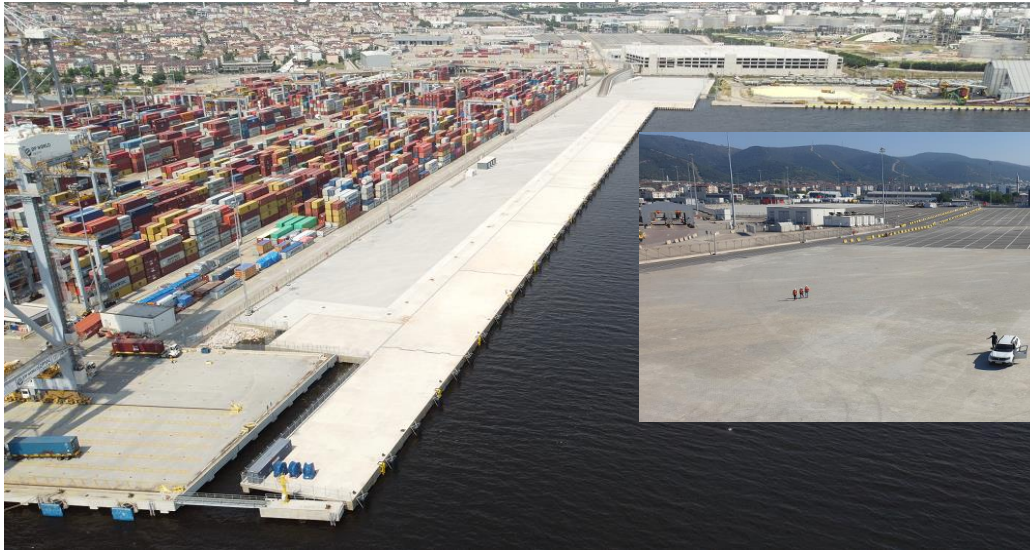
- Site Investigations and Surveys
- Conceptual & Detailed Design for;
 - Berthing Structures: 500m long Deck-on-Pile for Ro-Ro Berth
 - Car Park Building: 225,000 sqm covered area ,
 - Infrastructure: Roads, Bridge Connections, Terminal Yard and Utilities of 173,640 sqm.
- Preparation of Technical and Administrative Tender Documents
- Tender Period Consultancy Services
- Project Management and Site Supervision during construction

Client:



Location & Date:

Izmit / Turkey
2017-ongoing



Services:

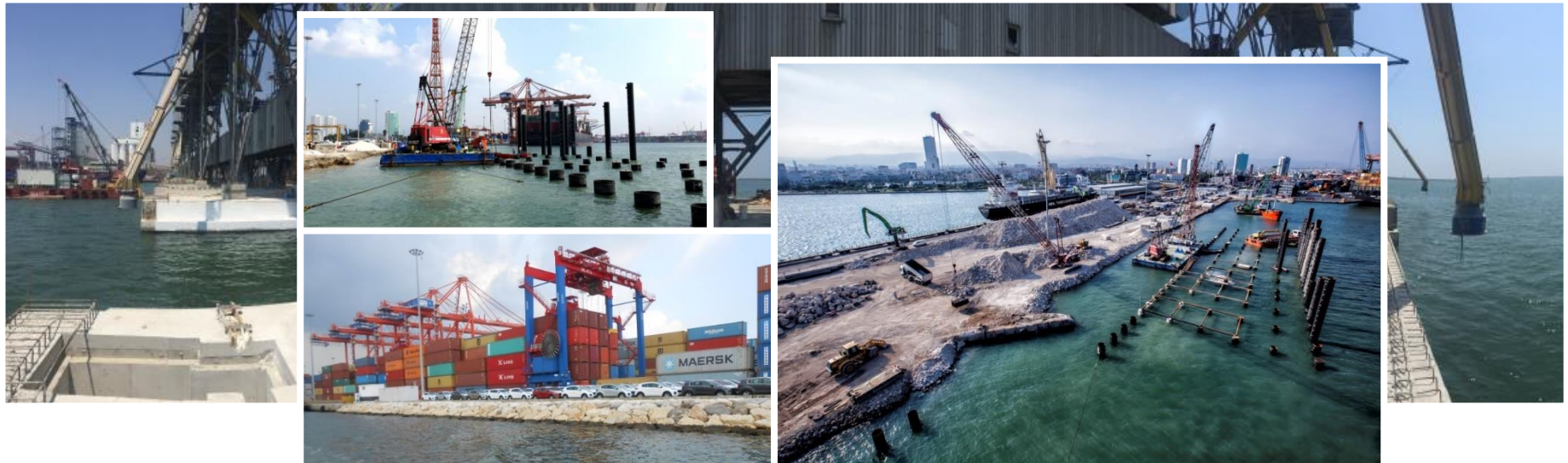
- Project Management Services for Development of East Med Hub 1 Project
- East Med Hub 2 Project, Master / Facility Planning and Conceptual Design Services for New Berths No 1, 2 & 3
- Tender Design & Construction Supervision for the Refurbishment of Jetty No. 14&15 and Service Capacity Assessment of Berths No.12&13&19B and Conceptual Design for the New Jetties
- Tender Design & Construction Supervision for the Existing Secondary Breakwater Re-Arrangement Works
- Concept Design for Extension of Berth No.20-21

Client:



Location & Date:

Mersin / Turkey
2011-ongoing



Services:

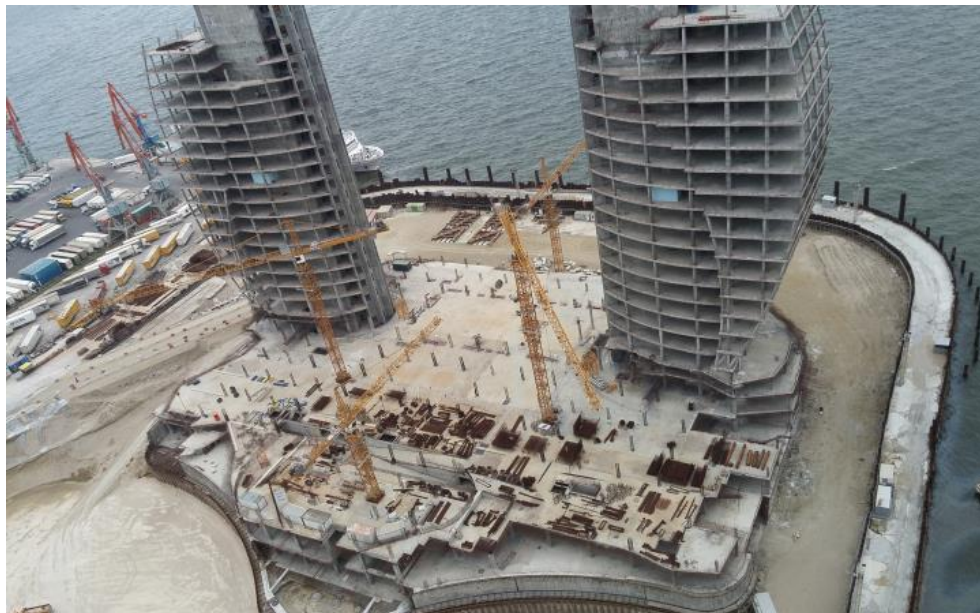
- Cofferdam Design Services (L: 340m) Surrounding a 7 Stars Hotel
- Conceptual & Detailed Design for the Cofferdam Structure for; sheet piled wall and revetment alternatives
- Preparation of Technical Tender Documents
- Tender Period Consultancy
- Technical Support during Construction Works Stage

Client:



Location & Date:

Baku / Azerbaijan
2018-2020



Services:

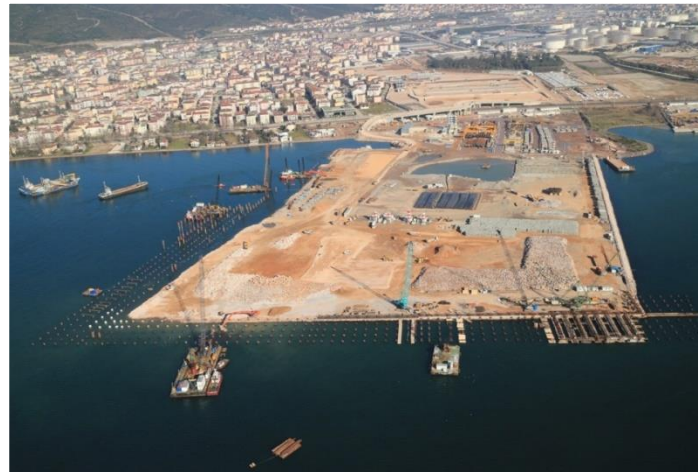
- Yarımca Container Terminal Consultancy Services for Updating of the Operation Permit for the Main Berth
- Detailed Design for;
 - Yarımca Container Terminal Deepening of Main Berth
 - Yarımca Container Terminal Rail Extension Study on Main Berth

Client:



Location & Date:

Izmit / Turkey
2019-2020



Services:

- Planning and Conceptual Design of the Marine Facilities and Terminal Layout;
 - ~1.9Mio TEU annual capacity capable to receive 400m long container vessels
 - 2,332m long Breakwater and 1482m long quay walls
 - Dredging Works...
- Determination of Budgetary Investment Cost

Client:

Confidential

Location & Date:

Turkey

2019-2019



Services:

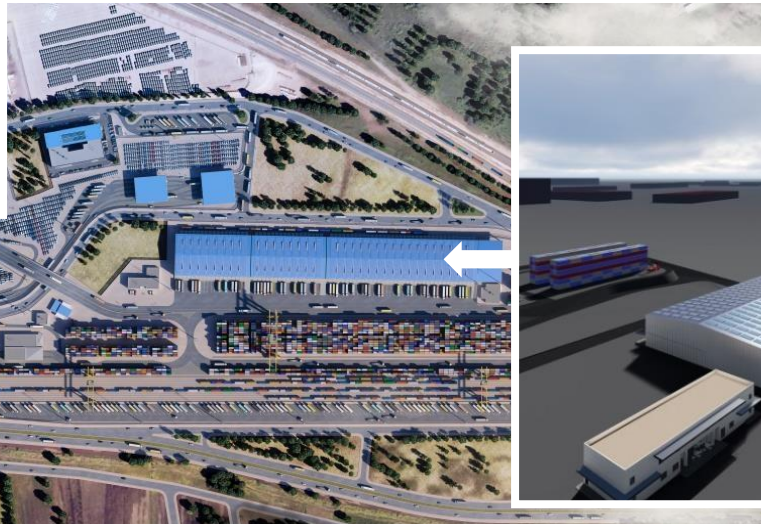
- Development of Conceptual & Final Design for an Inland Port with Railway and Highway Connections
- Design of Various Terminal Buildings and Warehouses with a Total Construction Area of 38,300m²
- Tender Documents Preparation & Tender Period Consultancy towards Civil Works, Electromechanical Works, Building Works and Connecting Bridge Contract Packages

Client:



Location & Date:

Izmit / Turkey
2016-2019



Services:

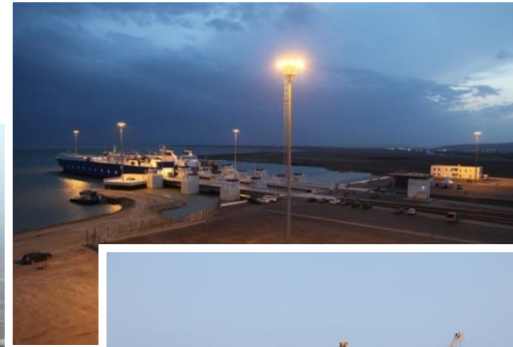
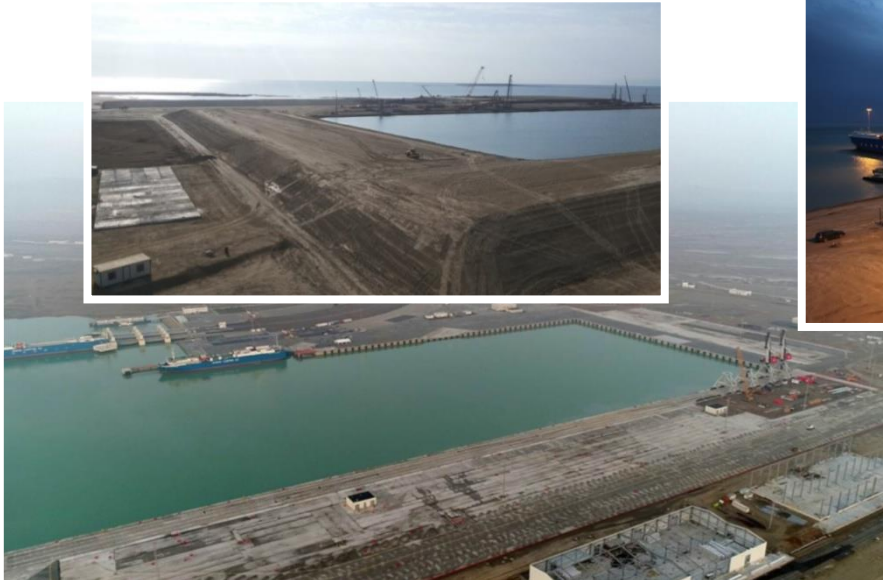
- Project Management, Site Supervision and Design Review Services
 - RoRo Berth (300m)
 - General Cargo Berths (650m)
 - Ferry Berths (2Nos)
 - Service Berth (250m)
 - Terminal Buildings
 - Road and Railroad Connections

Client:



Location & Date:

Baku / Azerbaijan
2011-2016



Services:

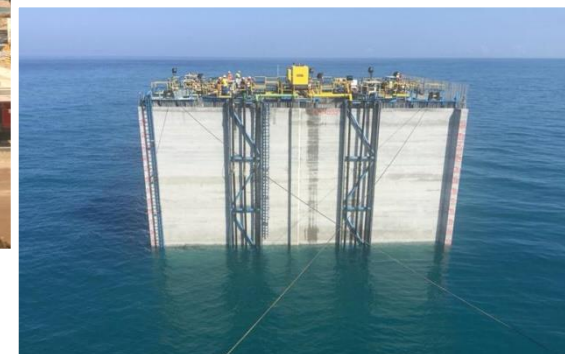
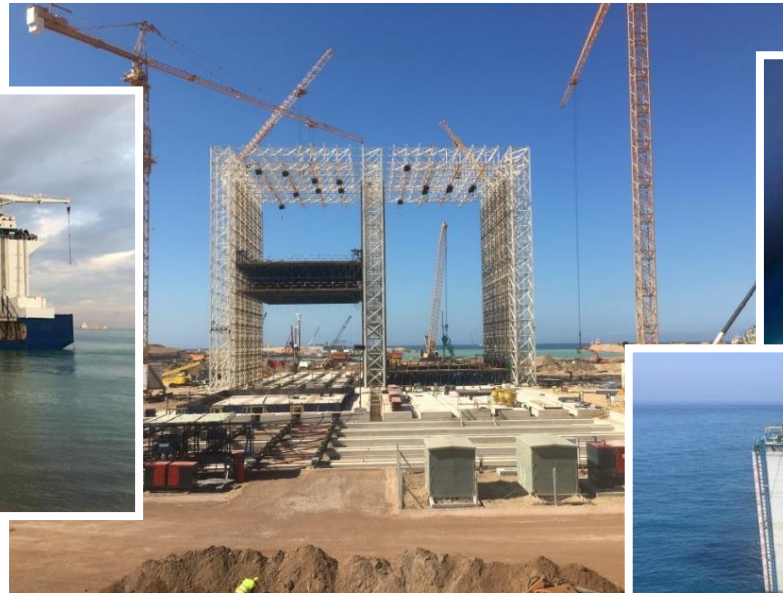
- Detailed Design for Temporary Structures for production & handling of prefabricated caisson elements, reaching up to 9,000 tonnes
 - Foundation Design of Caisson Production Facility
 - Foundation Design of Caisson Launching Jetty
 - Approach Channel for Caisson Launching Facility

Client:



Location & Date:

Nador / Morocco
2016-2017



Services:

- Conceptual (Civil, Structural, Maritime) Design for the Offshore LNG FSRU (Floating Storage and Regasification Unit) Terminal
- Design Interface Management with the electrical, mechanical, process designer and dynamic mooring modelling consultant
- Technical support towards procurement of long lead items
- Technical support to STFA Construction Group during EPC negotiations

Client:

ExxonMobil



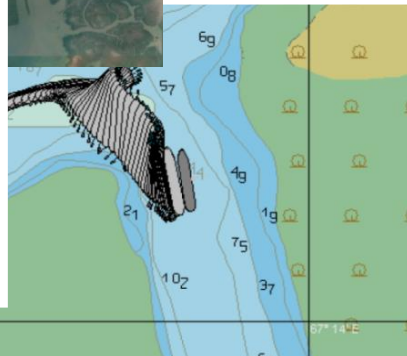
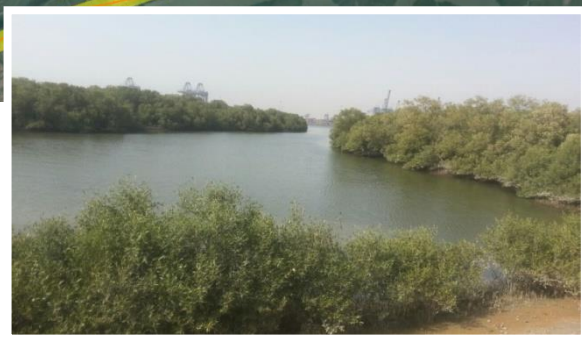
TOTAL



HÖEGH LNG

Location & Date:

Port Qasim - Karachi / Pakistan
2017



Services:

- Supervision Services during Construction of 5.5 km long tunnel including Izmirspor, Hatay, Goztepe, Poligon and Fahrettin Altay stations

Client:



Location & Date:

Izmir / Turkey
2017



Services:

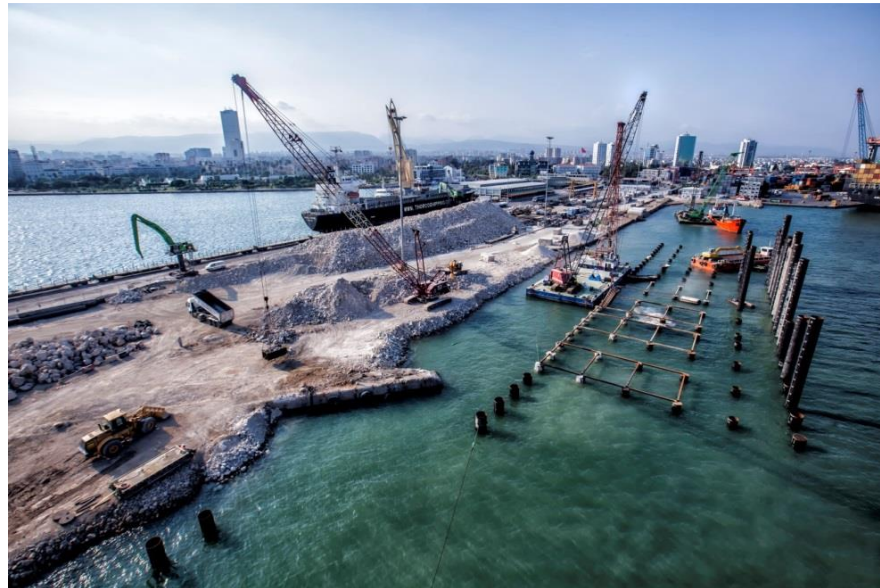
- Construction Supervision Services for Construction of New Container Berth, East Med Hub (L: ~518m), Container Stockyards and Civil Infrastructure (150,000 sqm)
- Tender Documents Preparation & Tender Period Consultancy for Quay Wall Construction, Dredging, Electromechanical Works & Port Entrance Extension Works

Client:



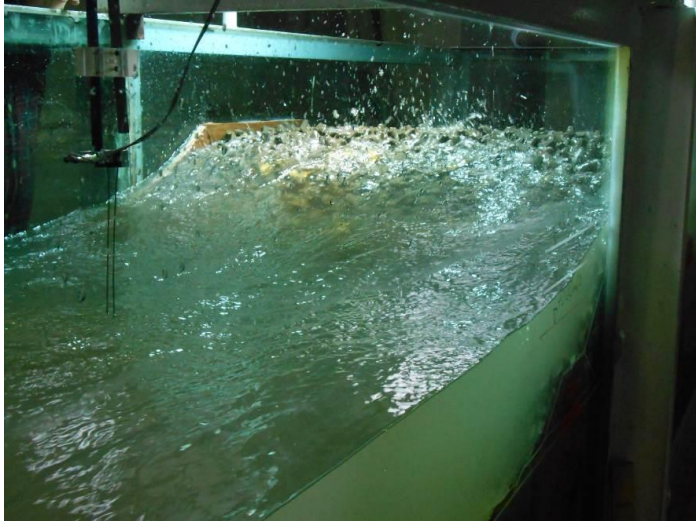
Location & Date:

Mersin / Turkey
2014-2017



Services:

- Verification of Design for Breakwater Sections through 2D Physical Modelling Studies
- Assessment of Core-Loc Performance on Breakwater Sections
- Technical Assistance and Settlement Prediction Analysis of the expected Settlements under the Breakwaters, Quay Walls and Reclaimed Areas



Client:



Location & Date:

South Batinah / Oman
2015-2015

Services:

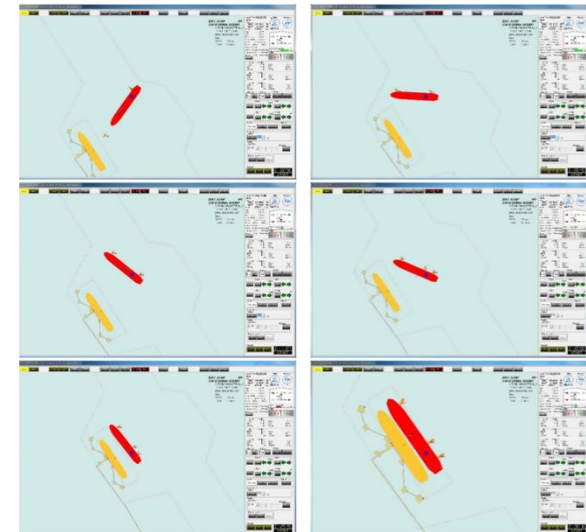
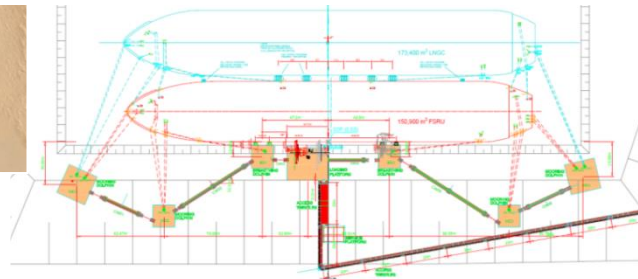
- Design Development of Jetty and the Connecting Trestle for the FSRU Gas Port 250 MW Power Station
- Tender Period Consultancy for the Marine Works Contract
- Technical Assistance towards Procurement of Long Lead Items
- Engineering Management for Real Time Full Bridge Simulations

Client:



Location & Date:

Walvis Bay / Namibia
2015-2015



Services:

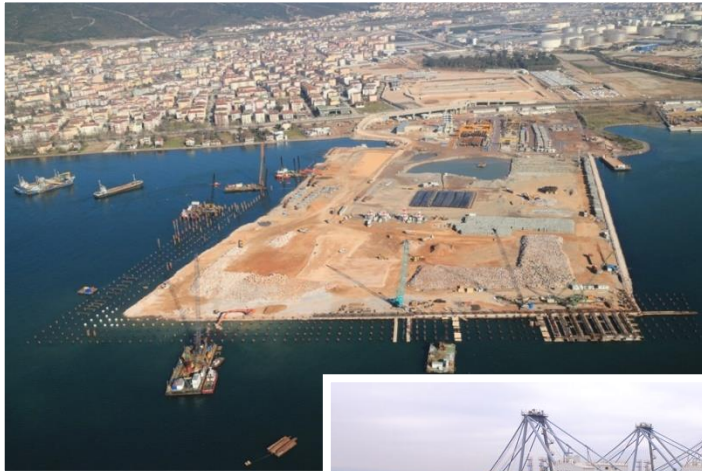
- Preliminary and Detailed Design Services for Marine Structures (Deck on Piles Berths ~900m)
- Interface Engineering Management of Structural Design
- Technical Consultancy during Construction Period

Client:



Location & Date:

Izmit / Turkey
2013-2015



Services:

- General Design Development Services for Georgian Coast Guard;
 - Boat Basin at Batumi
 - Boat Basin at Anaklia
 - Boat Lift System Piers and Infrastructure at Poti
- Expert Staff Augmentation and Technical Assistance during construction of Batumi Boat Basin

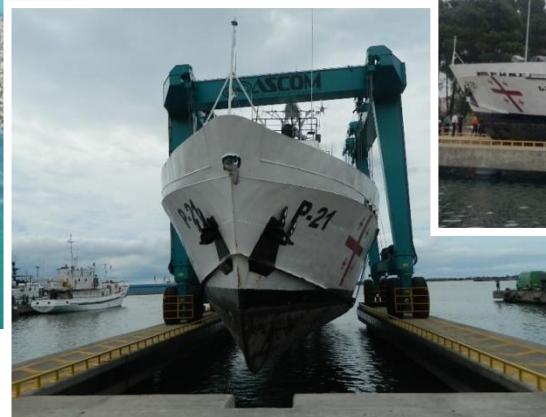
Client:



URS

Location & Date:

Anaklia-Poti-Batumi / Georgia
2013-2016



Services:

- Site Reconnaissance Survey for the general cargo finger pier within the Borusan Port
- Assessment of the theoretical service capacity, determination of structural risks and assessment of the Structural Stability and based on the Valid Design Codes and Specifications
- Development of Suggestions for Required Structural Improvements or Renewals for Operability

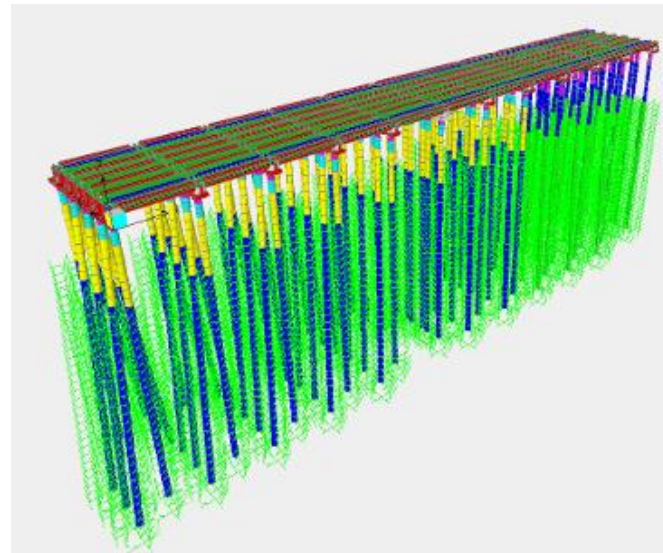


Client:



Location & Date:

Bursa / Turkey
2014-2014



Services:

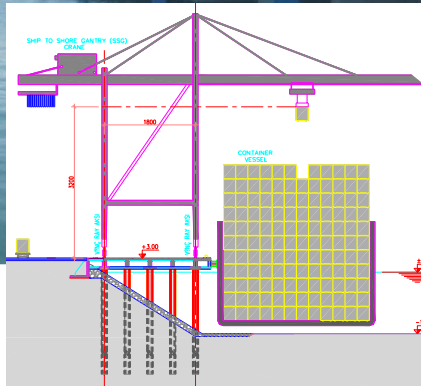
- Consultancy & Supervision Services for Construction of Berths No. 17&18&19 (Deck on Pile Type Berths, L: ~600m)
- Planning/Tender Design of Container Storage Yard (180,000 sqm)
- Planning/Conceptual Design of a New Misurata Free Zone Port at Two Alternate Locations
- Tender/Conceptual Designs of Refurbishment of Berths No.10A &11A and New General Cargo Berths and a Cement Factory Service Port

Client:



Location & Date:

Misurata / Libya
2009-2014



Services:

- Verification of Design for Breakwater Sections through 2D Physical Modelling Studies
- Assessment of Core-Loc Performance on Breakwater Sections
- During Construction Consultancy Services



Client:



Location & Date:

Salalah / Oman
2013-2014



Services:

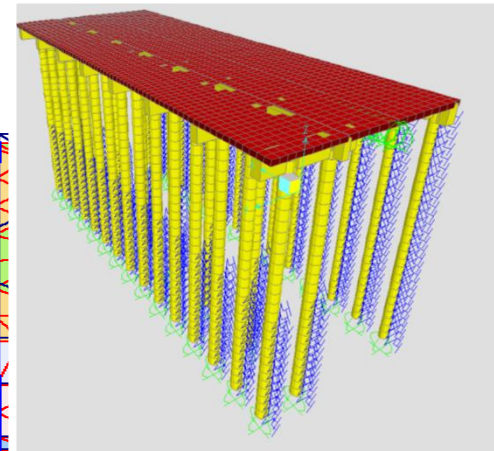
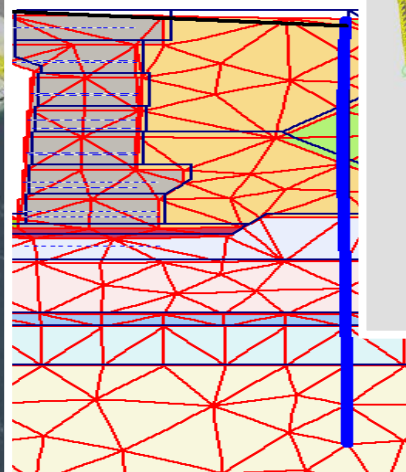
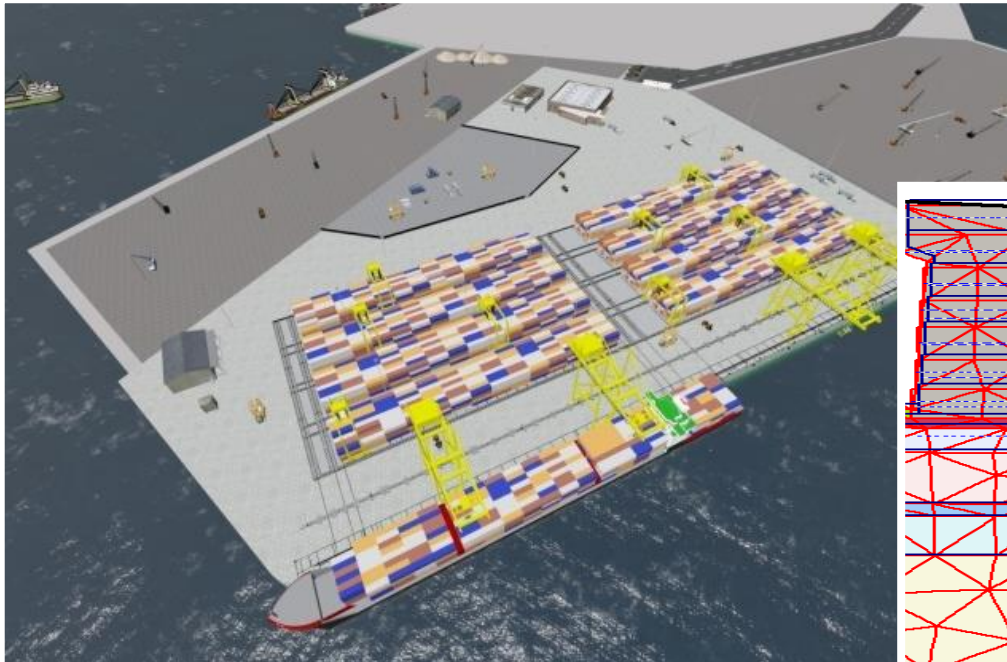
- Maritime Traffic Forecasting and Master Planning,
- Port & Equipment Planning and Throughput Estimation,
- Analysis of required port infrastructure, equipment and associated costs,
- Refurbishment/Deepening Design
- Preparation of budgetary cost estimates for envisaged works

Client:



Location & Date:

Benghazi/ Libya
2013-2013



Services:

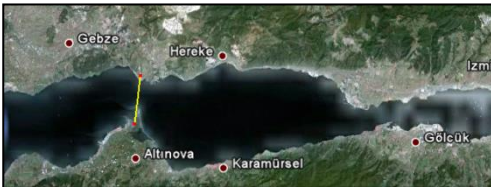
- Detailed Design and Engineering Services;
 - Dry Dock & Wet Dock
 - Service Jetties
 - North Anchor Structure Deep Excavation Curtain Walls
 - North and South Access Roads
 - Permanent Revetment at the Dry Dock
 - Numerical Mooring Analysis for Wet Dock

Client:

IHI

Location & Date:

Izmit / Turkey
2011-2013



Services:

- Supplementary Design Review for Tender Design of Breakwaters, Caisson Type Pier Walls, Floating Dock Guide Piles and Mooring Piles of Large Boats
- Shop Drawings Preparation for Formwork Plan & Rebar Detailing for Buildings
- Technical Consultancy Services during Construction Period



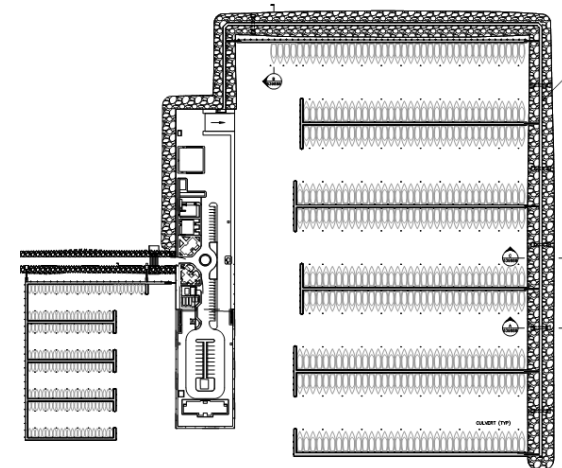
Client:

ارامكو السعودية
Saudi Aramco



Location & Date:

Manifa / Saudi Arabia
2012-2013



Services:

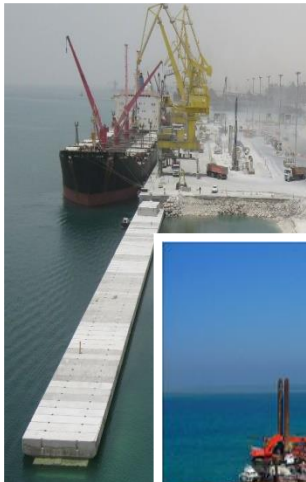
- Detailed Design and Engineering Management Services
 - Quay Wall, Reclamation, Revetments, Buildings (Substation SS9)
 - Electrical and Power Supply Systems, Fire Fighting and Drainage Systems and all utility design
- Design Coordination at interfaces for Mechanical Handling Equipment and Electrical Engineering Works
- Engineering Management and Technical Assistance during Construction
- Tender Design Services

Client:



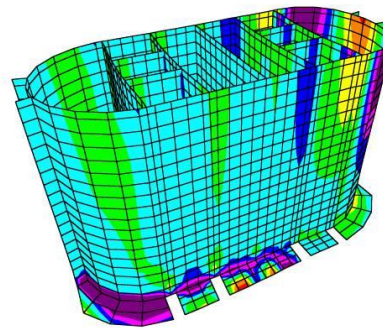
Location & Date:

Mesaieed / Qatar
2008-2012



Services:

- Detailed design services and construction methodology development for Belde Port Facilities 1st Part Caisson Type Quay Construction and Coastal Protection
- Structural analysis of the Caisson type structure including wave analyses and hydraulic laboratory tests



Client:



Location & Date:

Istanbul / Turkey
1999-1999



Services:

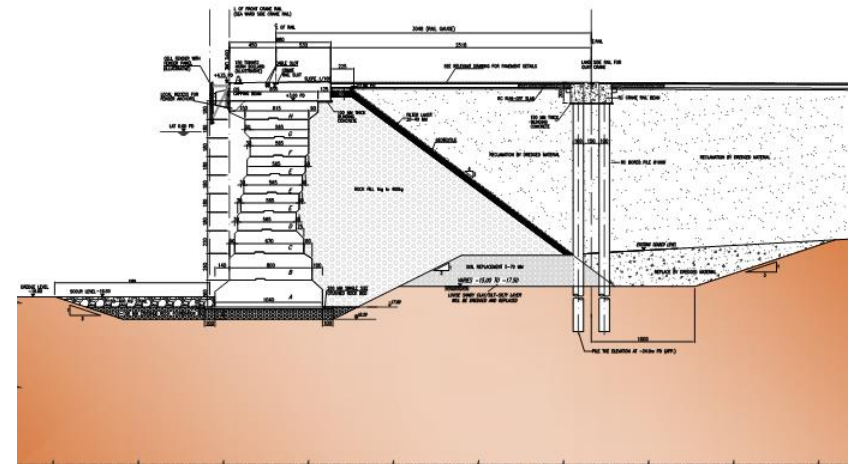
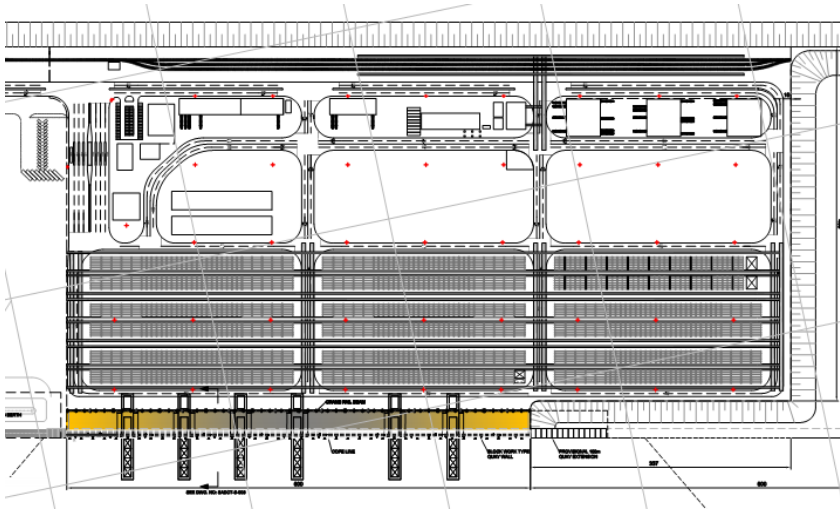
- EPC Tender Design of Quay Wall, Pavement, Potable Water, Drainage, Electrical & Lighting System and Ground Improvements
- Preliminary Design Reports, Layout and Typical Cross Sections
- Un-Priced Bills of Quantities

Client:



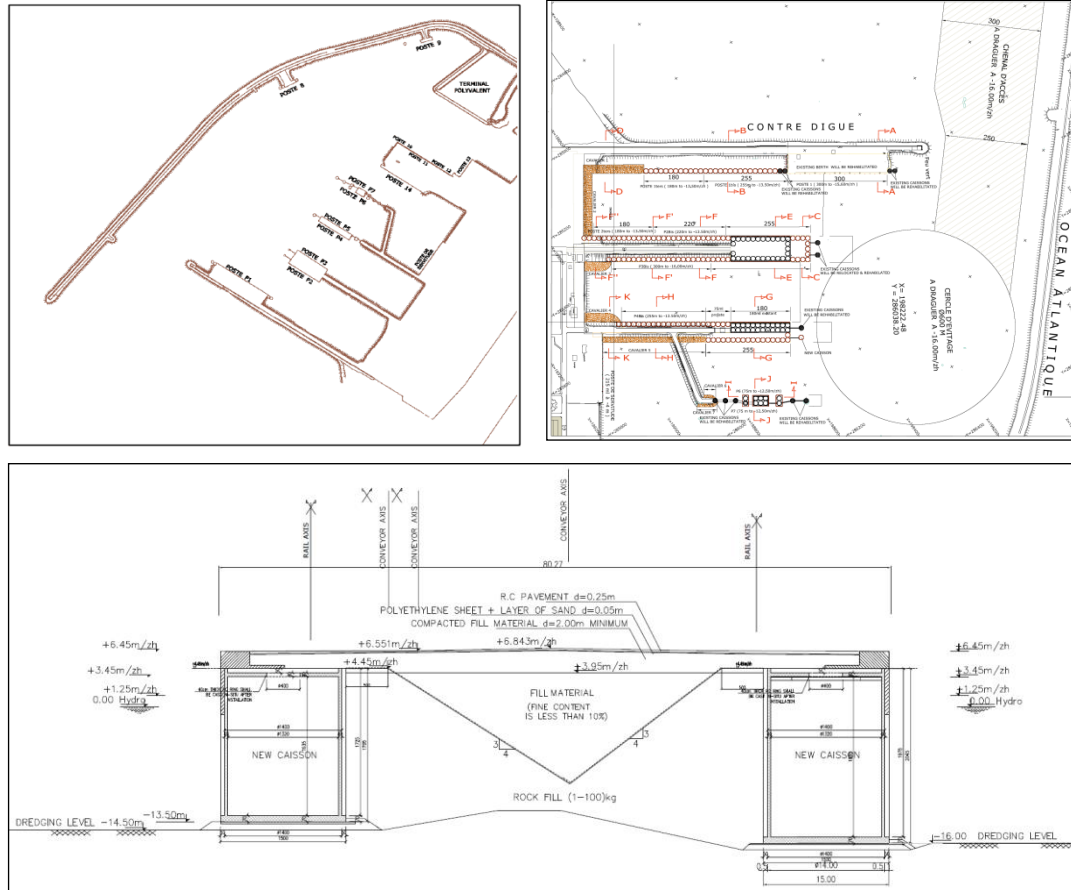
Location & Date:

Damman / Saudi Arabia
2012-2012



Services:

- Tender Design and Consultancy Services for Rehabilitation and Extension of Port of Jorf Lasfar Project



Client:



Location & Date:

Jorf Lasfar / Morocco
2011-2011

Services:

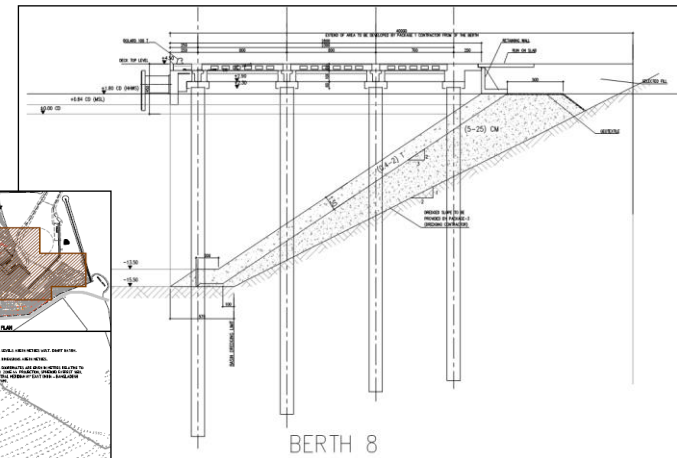
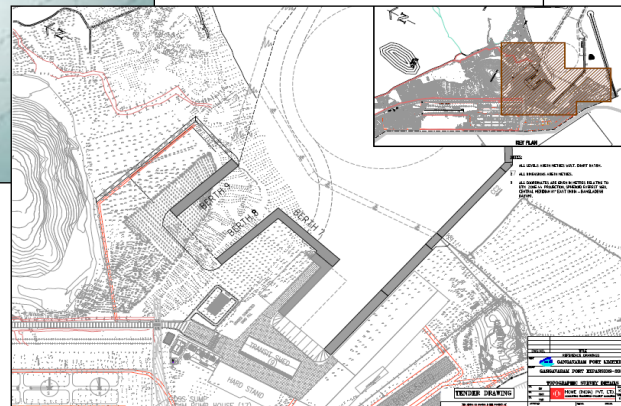
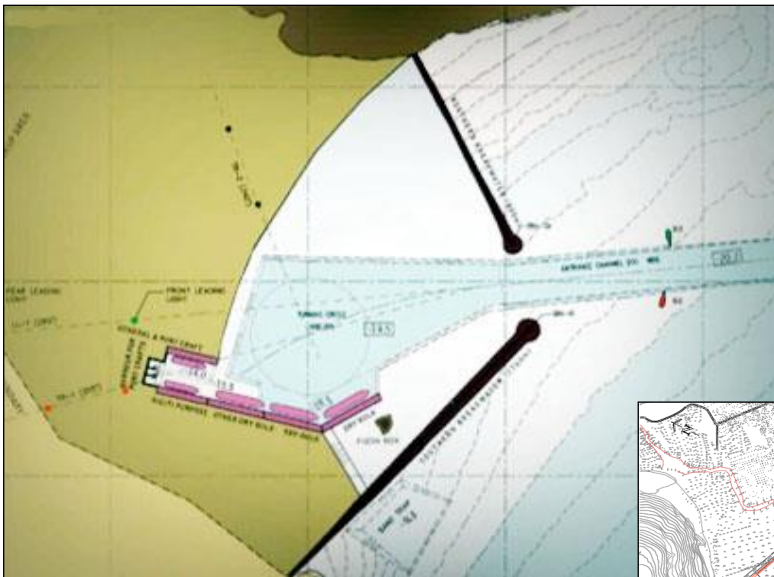
- Tender Design of Marine Civil Works; Coal Berth No.6, Multi-Purposes Berths No.7,8,9 and Container Vessel Berth, Shore Protection Works and Ancillary Works

Client:



Location & Date:

Gangavaram / India
2011-2011



Services:

- Bathymetric and Geophysical Seismic Reflection Survey
- Met-Ocean Conditions Survey, Numerical Modelling Studies (Wave Agitation, Vessel Manoeuvring and Sedimentation Modelling)
- Quarry Investigation report in line with field survey and laboratory testing
- Preliminary Design of Reclamation Area for Coal Stockyard and Bund Structures Protecting the Fill Area for Gerze Power Plant
- Layout & Sections for Berthing Structures, Breakwater and Dredging
- Budgetary Cost Estimation

Client:



Location & Date:

Sinop, Gerze / Turkey
2008-2011



Services:

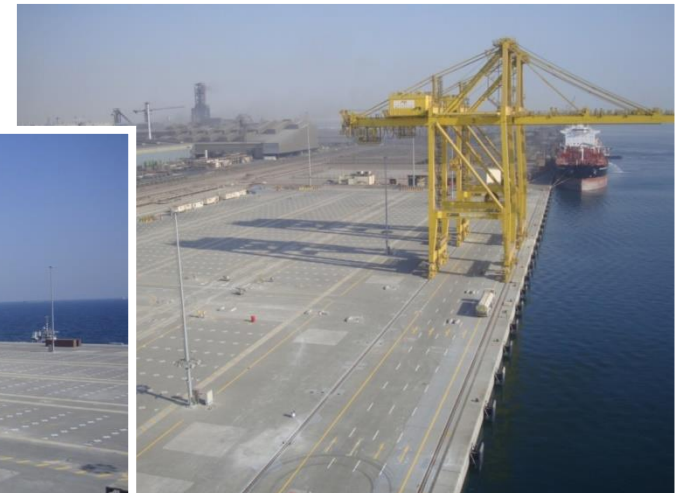
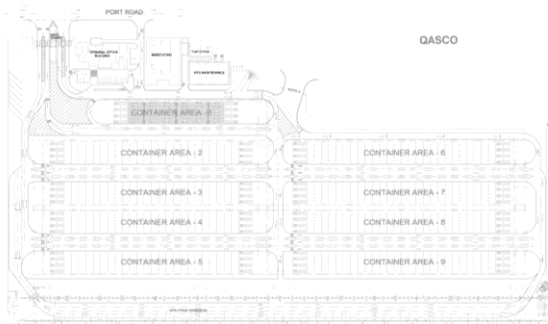
- Detailed Design and Engineering Management Services for EPIC for Container Terminal Berth
 - Quay Wall, Reclamation, Revetments, Seawater Intake, Crane Rail Beams and Crane Tracks
 - Infrastructural Works (HV, LV, ELV Power Supply, Grounding, Lightning, Fire Fighting, Storm Water Drainage, Lighting Systems, Roads and all utility design)
 - Buildings
- Design Coordination at interfaces for Mechanical Handling Equipment and Electrical Engineering Works
- Engineering Management and Technical Assistance during Construction Period

Client:



Location & Date:

Mesaieed / Qatar
2008-2010



Services:

- Detailed Design and Consultancy Services for;
 - Offshore Civil Structures; Main Bridge (2430m), 5 Nos Short Bridges (180m each), 8 Nos Culvert Bridges (88m each) and 27 Nos Escape Jetties for Islands
 - Berths (North Berth Area and South Berth Area)
 - Shore Side Ro-Ro Facility

Client:

ارامكو السعودية
Saudi Aramco



Location & Date:

Manifa / Saudi Arabia
2007-2010



Services:

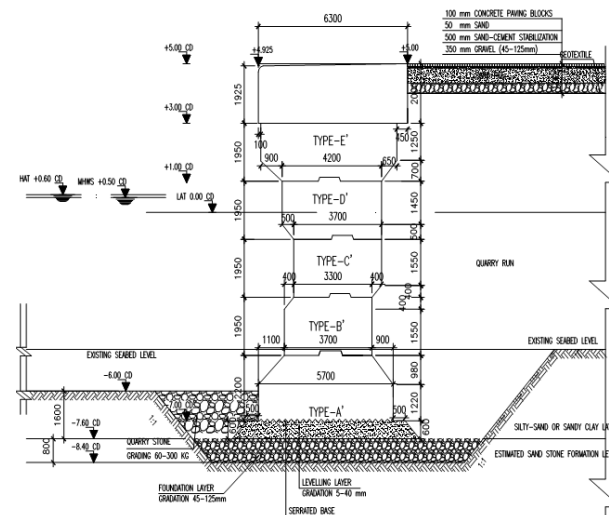
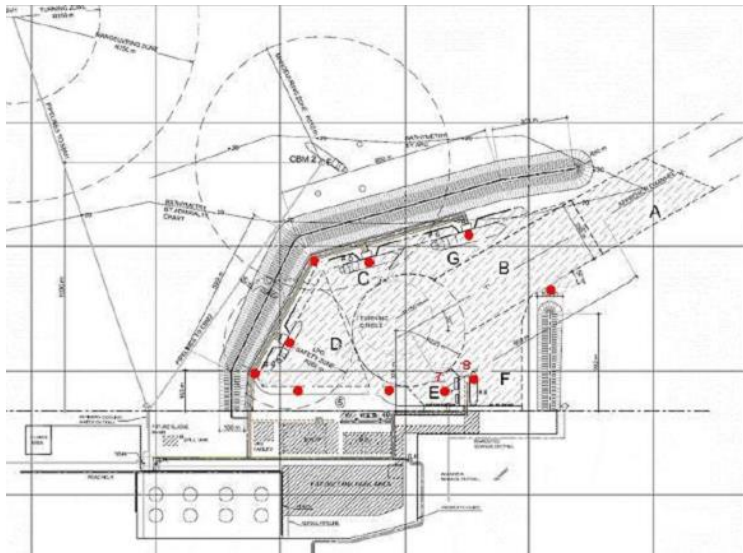
- Tender Design of Jetties (3 Nos), Service Berths (2 Nos), Mooring Dolphins, Roadways & Pipe Trestle and Cathodic Protection System
- Preliminary Design Reports, Layout and Typical Cross Sections
- Un-Priced Bills of Quantities

Client:



Location & Date:

Azzawiya / Libya
2010-2010



Services:

- Engineering, Consultancy, Preparation of Tender Documents and Construction Supervision Services for Construction of Highway Junctions at Kuyumcukent
- Preparation of Tender Documents and Tender Period Consultancy and Construction Supervision and Project Management Services for Kuyumcukent C Workshop and D Office Blocks Construction

Client:



Location & Date:

İstanbul / Turkey
2005-2009



Services:

- Condition Survey of the Existing Marine Terminal (North Jetty and West Breakwater) & Detailed Engineering Studies for Repair Works
- Preparation of Repair Procedures and Tender Documents for the Construction Contract
- Construction Supervision Services for Structural Repair Works for North Jetty and the West Breakwater

Client:



Location & Date:

Zeutina / Libya
2004-2008



Services:

- Development of a Service Port for a New Cement Factory along eastern coastline of Libya
- Site Reconnaissance Survey and Bathymetric Survey
- Met-Ocean Wind & Wave Study
- Preliminary Design of the Berth and Wave Protection Structures, Dredging Plans
- Budgetary Cost Estimation

Client:

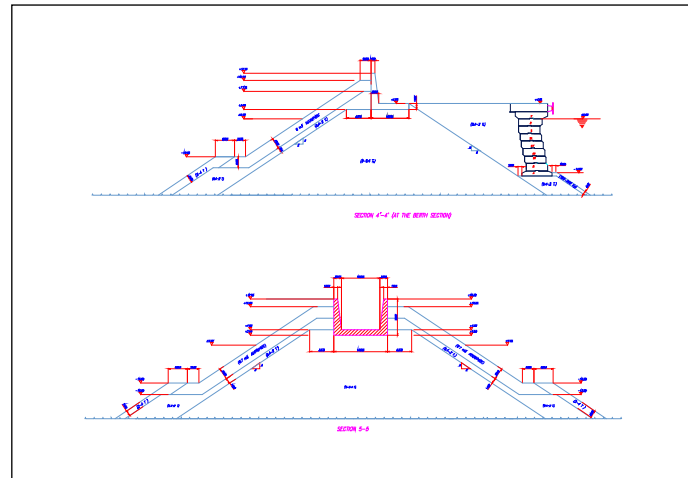
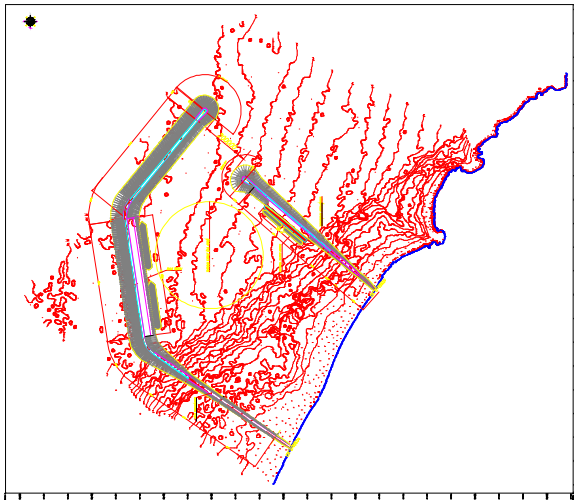


Italcementi
HEIDELBERGCEMENT Group

Location & Date:

Libya

2006-2007



Services:

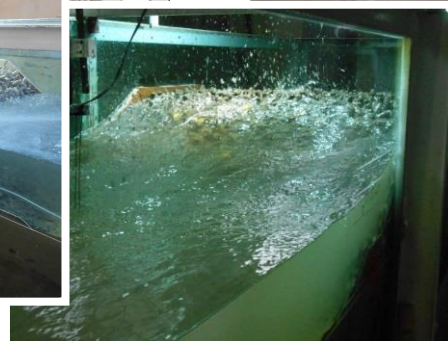
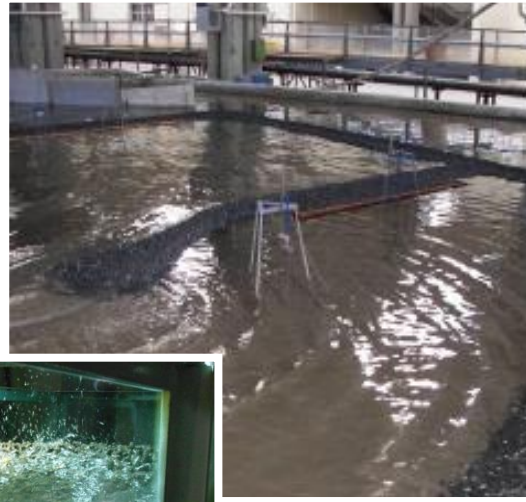
- Feasibility Study and Conceptual Design for Al-Khatmat Port
- Numerical Modelling Studies (Wave Transformation, Wave Agitation, Sediment Transport and Vessel Maneuvering)
- 3D Physical Modelling of Breakwaters
- Preparation of Tender Documents, Technical Specifications and Bills of Quantities

Client:

شركة الخطة لآعمال التجيرش.م.م.
AL KHATMAT QUARRY COMPANY L.L.C.

Location & Date:

Al-Khatmat / Oman
2007-2007



Services:

- Condition Survey of the Slipway and Sheet Pile Type Jetties, Repair Design of the Slipway Subsidence
- Preparation of Tender Specifications, Drawings, Bills of Quantities
- Preparation of Scope of Work for Repair Construction for the Slipway and Sheet Piled Jetties



Client:



Location & Date:

Tripoli / Libya
2007-2007



Services:

- Development of Existing Bulk Berth to Receive Two Vessels Simultaneously
- Design and Engineering Studies with Feasibility Studies and Numeric Surveys



Client:



Location & Date:

Misurata / Libya
2005-2006

Services:

- Technical Assistance, Design Management and Consultancy Services during Construction Works for Rehabilitation & Refurbishment of Iron and Ore Coal Berth at Port Qasim

Client:



Location & Date:

Karachi / Pakistan
2004-2006



Services:

- Construction Management and Technical Assistance Services for breakwaters and gravity type block quay wall of Pars Petrochemical Port
- Construction Methodology Development

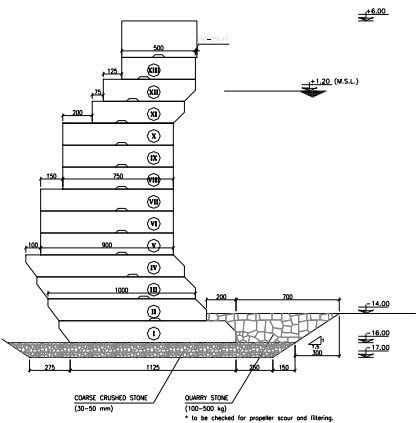
Client:

GHORB NOOH



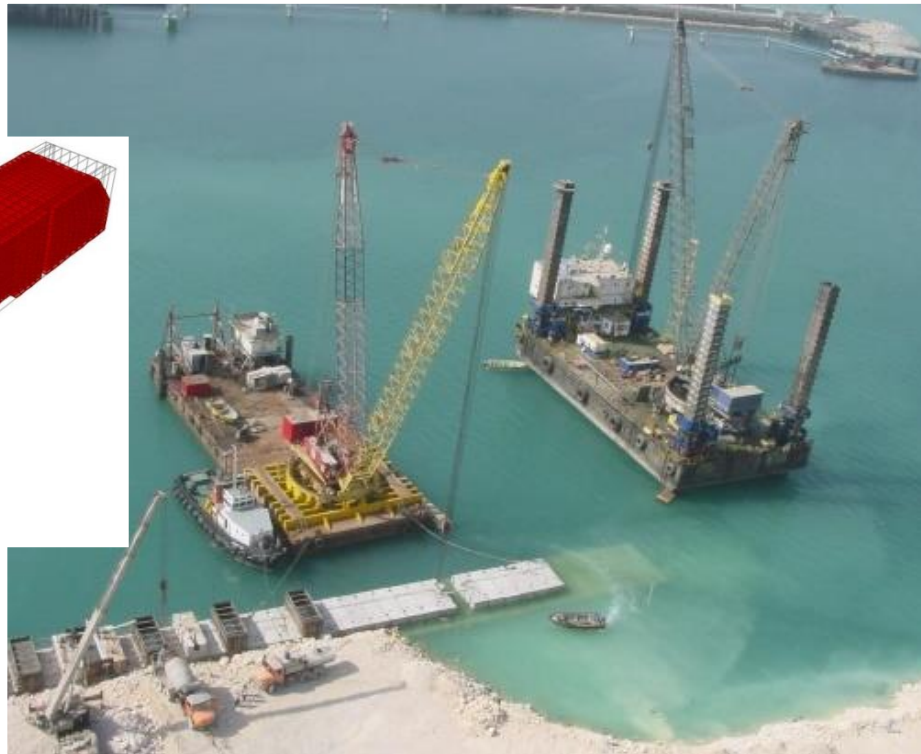
Location & Date:

Assaluyeh / Iran
2003-2005



UREA BERTH (REVISED SECTION)

(DRAFT - 28.04.2004)



Services:

- Preparation of Feasibility Study for Development of Sedef Port as a Modern Container Terminal
- Strategic and Operational Reviews

Client:

SEDEF
GEMİ İNŞAATI A.Ş.

Location & Date:

İstanbul / Turkey
2004-2004



Services:

- Supply of necessary potable water from Çatalan Dam; including treatment plant, transmission line and distribution network.
- The Engineering Group of STFA has provided in-house engineering design services, construction methodologies and technical assistance to the site personnel

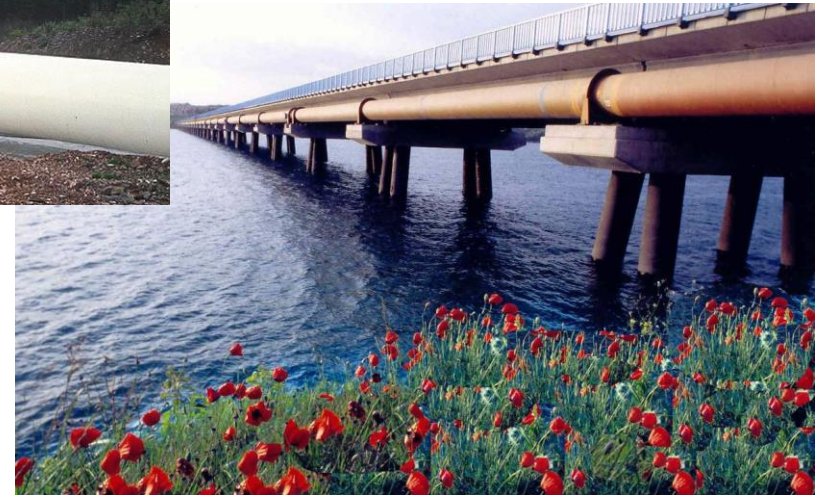


Client:



Location & Date:

Adana / Turkey
2002



Detailed Information available at our web page:
www.ecap.com.tr

Head Office

E-mail: info@ecap.com.tr
Tel: +90 216 578 96 20
Fax: +90 216 578 96 51

Address:
STFA Is Merkezi,
Yesil Vadi Sok. No 3, Atasehir
34752, Istanbul Turkey

Azerbaijan Branch Office

E-mail: bakubbranch@ecap.com.tr
Tel: +994 12 464 41 86
Fax: +994 12 464 41 86

Address:
AGA Center, 55
Khojali Avenue, Khatai District,
Baku, Azerbaijan