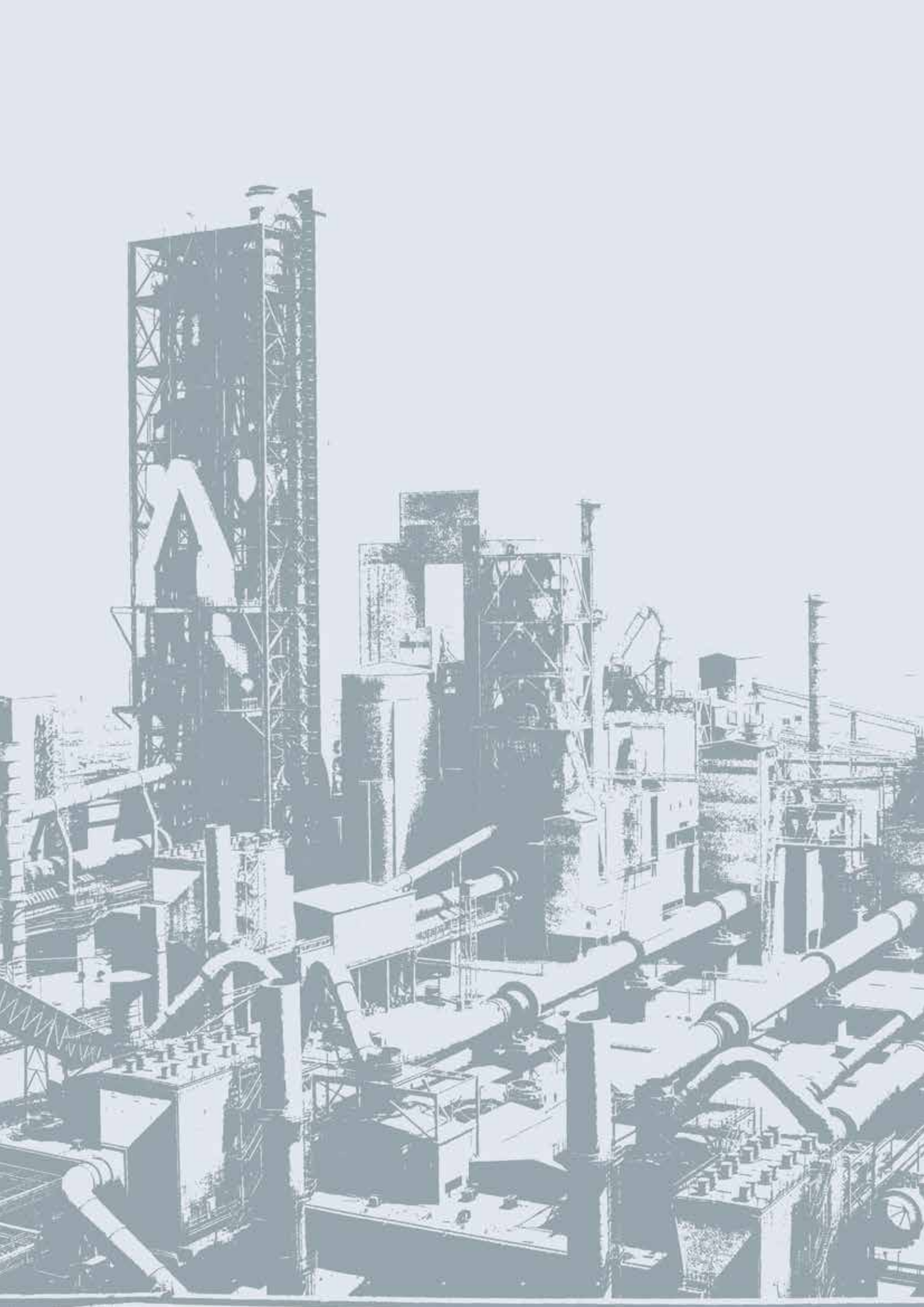




PROKON MÜHENDİSLİK VE MÜŞAVİRLİK A.Ş.
PROKON ENGINEERING & CONSULTING INC.





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since 74

Engineering,
Procurement and
Construction services
since 1974





PROKON MÜHENDİSLİK VE MÜŞAVİRLİK A.Ş.

Engineering and Consultancy Company providing

- Integrated Planning and Feasibility Studies,
- Engineering and Architectural Services,
- Construction Management and Supervision Services.



EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.

Contracting Company providing integrated services on

- Infrastructure Works,
- Integrated Industrial Facilities,
- Superstructure Construction Works,
- Manufacturing and Installation Works.



PROKON İMALAT VE MONTAJ A.Ş.

Manufacturing and Erection Company having a wide range of facilities in the fields of Infrastructure Works and Industrial Plants.



PROYA YAZILIM VE TİCARET A.Ş.

Software Development Company specialized in the Construction Industry Related Softwares.



PROEN ENERJİ VE MADENCİLİK SANAYİ VE TİCARET A.Ş.

Energy Company giving services in Energy & Mining Sector.



EKONUT PROJE İNŞAAT SANAYİ VE TİCARET A.Ş.

Construction Company specialized in Housing and Shopping Center Investments.



SADAŞ SİGORTA ARACILIK HİZMETLERİ A.Ş.

Insurance Company providing Solutions for Insurance Services.



introduction

PROKON Mühendislik ve Müşavirlik A.Ş. is an Engineering and Consultancy Company providing Integrated Planning and Feasibility Studies, Engineering and Architectural Services, Construction Management and Supervision Services throughout Turkey and abroad.

PROKON provides customers sustainable and tailor made solutions, appropriate to their needs. We achieve this through experienced, skilled and motivated personnel with proper management tools.

PROKON serves to a variety of sectors, helping public and private sectors customers to meet their business objectives. We work to create value by delivering integrated solutions on the most complex assignments.

In business partnership with customers, we are aiming to create a better tomorrow.



history

PROKON Mühendislik ve Müşavirlik A.Ş. was established in 1974 as a Limited Company by CE.MSc. Hasan ÖZDEMİR and CE.MSc İsmail SALICI. Both founder partners have graduated from İstanbul Technical University and started to work as structural engineers in the Project Engineering Office in Karabük Iron and Steel Production Complex before founding PROKON.

Main services provided by the company at the beginning were structural engineering and design services for industrial buildings. Personnel capacity of the company at the beginning was approximately 20.

Power Plants, Cement Production Plants, Iron and Steel Production Plants Engineering, Architectural and Design Services took place by the beginning of the 1980's. Gradually the core business of the company has become Engineering and Design Services for Industrial Type of Buildings. PROKON has worked in cooperation with many technology and process providing companies from Europe, Japan and USA. Personnel capacity of the company during this period was approximately 50.

Multi-Discipline Engineering and Architectural Services were started to be provided by in-house engineers at the beginning of the 1990's. PROKON have started to perform all Design and Engineering Services with computers and made progressive development both in usage of software and hardware.

This period is also starting point of Construction Supervision Services for World Bank Financed Projects, according to the FIDIC Regulations. Procurement Documents including Technical Specifications, Work Schedule, Commercial and Administrative Conditions have been prepared and followed up by skilled and experienced personnel of PROKON. Personnel capacity of the company was considerably increased to 200.

PROKON established and applied quality management system ISO 9001 in year 1998.

Networks of computers were established for internal and external communication and data transfer in 1999.

Large Scale Educational and Residential Buildings Projects Consultancy Services as well as Rail Transportation Projects had been assigned to PROKON in the early 2000s.

As a Policy of Company towards the Support of Research and Development Studies, a group of in-house engineers have been dedicated to Structural Steel Design and Detailing Software. COMOSYS (Construction Modeling System) is the commercial name of the software as an output product of four years comprehensive studies of the group.

Management and Internal Organizational Relations within the Company were transformed from Hierarchic Organization to Matrix Management System in the year 2003.

Company transformed its Commercial Partnership from Limited to Incorporation in the year 2003.

ISO 14001 and OHSAS 18001 certificates were achieved in 2005.

services

A- PLANNING AND FEASIBILITY

B- ENGINEERING AND ARCHITECTURE

CIVIL ENGINEERING

- ➔ Plant Lay-Out
- ➔ Storm Water Drainage
- ➔ Dewatering
- ➔ Sewage
- ➔ Water Supply & Distribution
- ➔ Roads and Pavements
- ➔ Irrigation
- ➔ Tunnels
- ➔ Subways
- ➔ Waste Storage Dams

MECHANICAL

- ➔ Bulk Handling Systems
 - Elevators
 - Conveyors
 - Chutes
 - Air Slides
- ➔ Duct Work
 - Gas Ducts (Waste Gas, Hot Gas)
 - Dust Collection Ducts
- ➔ Piping
 - Steam & Condensate
 - Natural Gas
 - Coke Gas
 - N₂, O₂ Gases
 - Water
 - Compressed Air
 - Lubrication
 - Hydraulic
 - Crude Oil
- ➔ HVAC
 - Equipment Design
 - Duct Work
- ➔ Sanitary
 - Fixtures
 - Piping

STRUCTURAL ENGINEERING

- ➔ Reinforced Concrete Buildings & Structures
 - Buildings
 - Highway Crossings
 - Highway Bridges
 - Stacks and Towers
 - Silos and Bunkers
 - Shallow and Piled Foundations
 - Equipment Foundations (Rotating)
 - Retaining Walls
- ➔ Steel Structures
 - Industrial Buildings
 - High Rise Buildings
 - Aircraft Hangars
 - Steel Production Buildings
 - Towers
 - Bridges
 - Workshops
- ➔ Marine Structures
 - Water Intake Structures
 - Water Discharge Structures
 - Jetty
 - Harbour
- ➔ Rail Transport Structures
 - Stations
 - Operations and Maintenance Centers
 - Track Way
 - Over Pass and Under Pass
 - Tunnels
 - Viaducts
 - Cut & Cover

ARCHITECTURAL

- ➔ Conceptual Design
- ➔ Functional Planning
- ➔ Preliminary Design
- ➔ Detail Design
 - Plants and Facilities
 - Industrial Buildings
 - Educational and Cultural Buildings
 - Residential Buildings
 - Hospitals
 - Food and Beverage Facilities
 - Rail Stations
- ➔ Material Selection and Color Schedule
- ➔ 3D Presentation

ELECTRICAL

- ➔ Power Supply & Distribution
 - MV Panels Design
 - LV Panels Design
 - Transformers
 - Diesel Generators
 - UPS
 - Main Distribution Boards
- ➔ Cabling
 - Power and Data Cabling
 - Cable Trays
 - Cable Ladders
 - Conduits
 - Junction Box
- ➔ Lighting
- ➔ Earthing
- ➔ Lightning Protection
- ➔ Telephone, Data
- ➔ Fire Detection and Alarm
- ➔ CCTV
- ➔ Automation
- ➔ Instrumentation

C- CONSULTING AND SITE SUPERVISION

PROCUREMENT

- ➔ Tender Document Preparation
 - Contract General Conditions
 - Contract Particular Conditions
 - Technical Specifications
 - Bill of Quantities
 - Drawings
- ➔ Contractor Selection
 - Setting Selection Criterias
 - Qualification Document
 - Document Evaluation
 - Proposal Evaluation
 - Contract Negotiations
 - Reporting

CONSULTANCY SERVICES

- ➔ Technical Assistance
- ➔ Schedule Monitoring and Control
- ➔ Quality Assurance
- ➔ Equipment & Material Selection
- ➔ Cost Control
- ➔ Reporting

SITE SUPERVISION

- ➔ Coordination
- ➔ Quality control
 - Equipment & Material
 - Implementation Control
 - Attendance to Tests
- ➔ Quantity Surveying
- ➔ Workers Health & Safety
- ➔ Reporting



fields of activity



Power Plants



Cement Industry



Iron & Steel Industry



Food & Beverage



Miscellaneous Industrial Plants



Building Construction



Education



Health

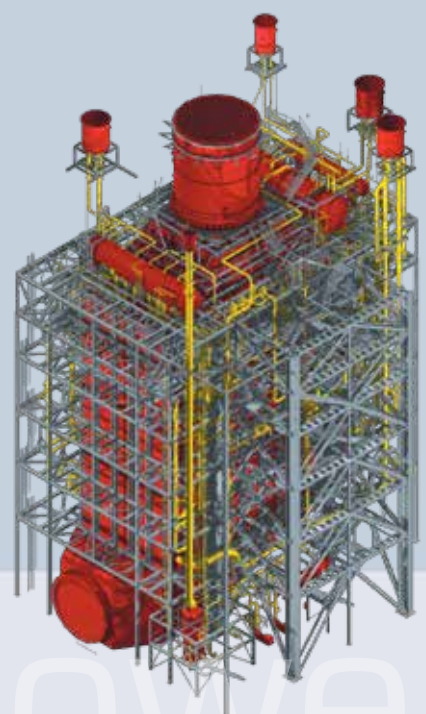


Transportation & Infrastructure





Power Plants



REHABILITATION AND FULL REPOWERING OF AMBARLI FUEL-OIL POWERPLANT

İstanbul, TURKEY



Client:
EÜAŞ



Within the scope of the project; 2 Gas Turbines with capacities between 250 and 300 MW and 2 Heat Recovery Steam Generators (HRSG) that generate steam out of the exhaust heat of gas turbines were installed. Existing steam turbines were rehabilitated and redesigned to work with the new steam regime. As a result, the installed capacity was increased from 300 MW to 816 MW.

One other objective of the investment is modernization and renewal, therefore existing facilities were also completely overhauled. Existing Fuel-oil Boilers and 105m height Concrete Stack that were located in the area where the Gas Turbines and HRSGs were to be installed, are completely demolished. The Water Intake System was completely rehabilitated in order to provide easy maintenance and operation and to increase the quality of circulating of water. As the Turbines were dual fueled, existing tanks were rehabilitated and used for Main Fuel-oil Storage. Besides them daily Fuel-oil Tanks and Pump Stations were designed. Pressure Reducing Stations and Pipelines were also designed in order to bring natural gas to the site.

With the realization of this project, the life of the old plant located at Marmara Coast of İstanbul shall be extended by 25 years. The net thermodynamic efficiency shall be enhanced and the installed generation capacity within the existing site boundaries shall be tripled. Besides the emissions, heat rejection and water consumption per kW shall be reduced.

The project was held by PROKON-EKON Group of Companies on turnkey basis and PROKON provided multi-discipline engineering service.



plants



GEBZE 850 MWe COMBINED CYCLE POWER PLANT

Gebze, TURKEY

Client: EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.



850 MWE Gebze Combined Cycle Power Plant, which is owned by Yeni Elektrik Üretim A.Ş., located in VI. IMES Organized Industrial Zone in Gebze, Dilovası District.

The main Contractor of the Power Plant is Ansaldo Energia S.P.A. (AEN). EKON is participating as native manufacturing, procurement and assembly contractor in this project and PROKON provided structural, mechanical, electrical and piping design services and technical support at site under EKON's scope.

The facility has 2 pieces Gas Turbine and Generator Set, 2 Heat Recovery Steam Generators and their Chimneys and 1 Steam Turbine and its Generator Set. The Gas Turbines are placed on a Mass Concrete Foundation at ground level whereas the Steam Turbine and its Generator placed on a Bridge Floor at an elevation of 20 m which is supported by Reinforced Concrete Columns.

The Gas Turbine and Steam Turbine buildings are designed as Steel Structure. There exists a mobile crane with a 135-tons capacity in Gas Turbine building and one with 80-ton capacity in Steam Turbine Building. Also Separate Electrical Buildings for each unit are placed adjoining to those buildings. Moreover, there are Separate Electrical Buildings for every Heat Recovery Steam Generators.

One Air Cooling Condenser for Steam Turbine and one FIN FAN Cooler System is placed for Gas Turbines. Other than the units of Power Island, Pipe Bridges, Auxiliary Boiler Facility, Water Tanks and Facilities, Auxiliary Electrical Buildings, Natural Gas RMS-A Station, Social Facilities, Underground Galleries, Pump Houses, Pump Foundations, Transformer Foundations etc. are also present in this project.

Facility Roads, Building and Road Drainage Infrastructure Design and Structural, Architectural, Electrical, Mechanical and HVAC Design of the Buildings, Exterior Illumination Design, Underground Natural Gas and Underground Firewater Piping Design were also provided by PROKON.



(1 + 1)x600 MW İSKENDERUN COAL-FIRED THERMAL POWER PLANT

Client: DILER HOLDING

İskenderun, TURKEY

The Diler Power Plant Project in Turkey includes two 600 MW units with two Supercritical Type Pulverized Coal-Fired Boilers, two Condensing Steam Turbine Generator Sets and Auxiliary Systems. The Plant was to be built in two Phases. The Phase I was to construct 1x600 MW and some common installations, and the Phase II was to construct the other 1x600 MW unit. When the project completed, each unit generates 4,260,000,000 kWh, annually.



The boiler plant is designed to burn imported coal as main fuel, and the natural gas is used as the ignition and assistant fuel. The project covered the following structures;

- | | | | |
|--------------------------|---|-------------------------------|--|
| ■ The Boilers | ■ Electrical System | ■ Waste Water Treatment Plant | ■ Step-up/Start-up/Unit Auxiliary Transformers |
| ■ Steam Turbines | ■ I&C | ■ Coal Handling System | ■ Auxiliary Boiler |
| ■ Generators | ■ Firefighting | ■ Ash Removal System | ■ Diesel Generator |
| ■ Water Supply System | ■ Flue Gas Denitrification & Desulphurization Systems | | ■ Telecommunications, etc. |
| ■ Water Treatment System | | | |
| ■ Cooling Water System | | | |



The following services were provided by PROKON under the scope of this project:

- Mapping Works,
- Engineering & Design Services of Water Intake & Discharge System,
- Preparation of Tender File / Tender Evaluation of Works under the scope of Owner,
- Design Review of Structural, Mechanical, Electrical, I&C & Process Drawings of Power Plant prepared by EPC Contractor,
- Supervision Services for Construction, Mechanical Equipment Installation & Plant Commissioning Works.



2x660 MW ISKENDERUN SUGÖZÜ IMPORTED COAL-FIRED POWER PLANT

Client: GAMA – TEKFEN JOINT VENTURE

Sugözü-İskenderun, TURKEY

2x660 MW İskenderun Power Plant is the first power plant operating with imported coal contracted as “Build-Operate” system. The power plant was built by the consortium of Babcock Borsig Power (Germany), GT Gama-Tekfen Joint Venture (Turkey) and SİMKO (Turkey). PROKON has undertaken the local engineering and design services of the plant as part of the GT Joint Venture.

PROKON provided the design services including architectural, multi-discipline engineering services and site technical support within the scope of the project.

The following services were provided by PROKON under the scope of this project:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines



The following structures and units are designed by PROKON:

- | | | |
|---|--|--|
| ■ Boiler House | ■ Desulphurization Systems | ■ Workshop & Depot |
| ■ Turbine House | - Limestone Crushing & Storage | ■ Management Building |
| ■ Bunkers | - Lime fluid Handling System & Tanks | ■ Cafeteria |
| ■ Electrical Control Building | - Gas Washing System | ■ Field Excavation, Access Roads, Bridges & Culverts |
| ■ Secondary Boiler House | - Service Building | ■ Roads |
| ■ Coal Storage System (Crusher House, Screening System, Coal Storage Area etc.) | - Gypsum Dewatering System | ■ Rainwater Discharge |
| ■ Ash Silos & Conveyor System | ■ Raw Water Tanks | - Sewer |
| ■ Stacks | ■ Water Treatment Facility | - Cable Channels |
| ■ Foundations of Electro Filters | ■ Gypsum Dewatering system | - Pipe Galleries |
| ■ Waste Water Recovery Plant | ■ Water Intake & Discharge Structures & Pump Station | - Water Intake & Jetty Systems |
| | | - 650 m Coal Loading Pier |





DOSAB COGENERATION PLANT

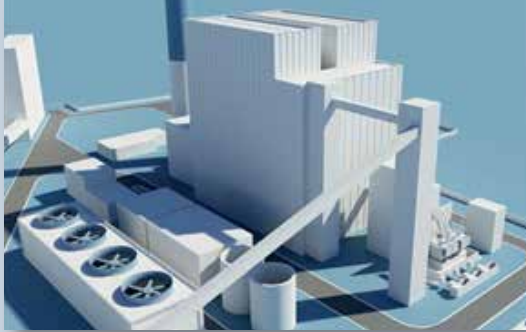
Bursa, TURKEY

Client:
DEMİRTAŞ
ORGANİZE
SANAYİ
BÖLGESİ
(DOSAB)

PROKON has been awarded for the Owner's Engineering Services of Cogeneration (Combined Heat and Power) Plant by Bursa Demirtaş Organized Industrial Zone (DOSAB). The main purpose of the project is to provide the necessary process steam for industrial plants and to generate power.

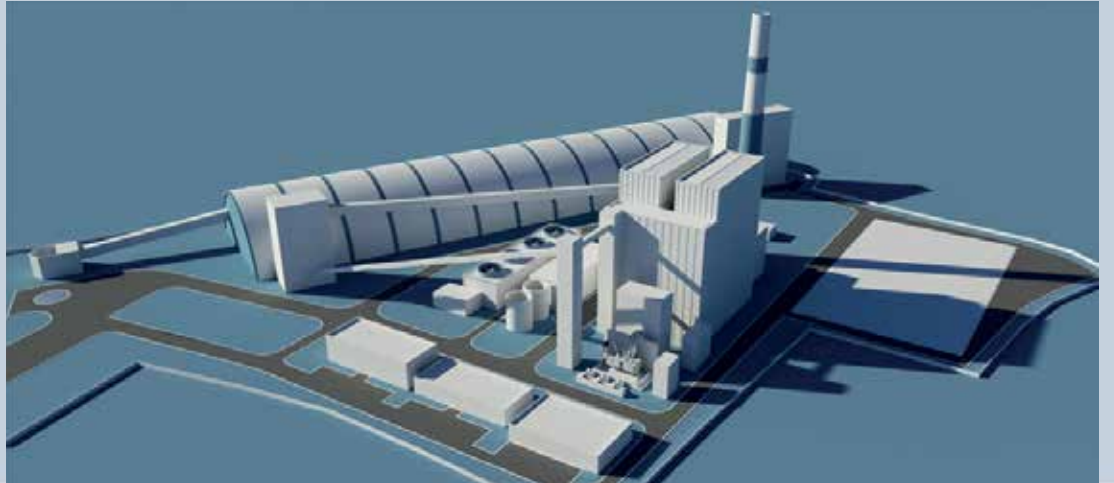
PROKON has provided the following services for the Lignite-Fired Circulating Fluidized Bed Boiler (CFB) Power Plant, which will produce a total of 300 tons/h Process Steam and 49,9 MW electricity concurrently.

- Preparation of Feasibility Report to be submitted to International Financial Institutions
- Conceptual Design Services
- Preparation of Tender Documents for the Selection of Local and Foreign EPC Contractor
- Supervision Services During Construction, Tests and Commissioning Periods.



Details Related to the Plant are as follows:

- Max. Installed Power: 49,9 MW
- Steam Capacity : 300 tons/h
- Combustion: Circulating Fluidized Bed Technology
- App. Boiler Capacity: 2 x 195 tons/h
- Fuel: Low Quality Local Lignite
- Fuel Calorific Value: 3.000 kcal (\pm 100)
- Fuel Size: 0-6 mm (Delivery at bunker)
- Plant water need: 10000 m³/day
- Closed Storage Area (20 days): 20000 m²



ALAŞEHİR 24 MWe GEOTHERMAL POWER PLANT PROJECT

Manisa, TURKEY

Client:
TÜRKERLER
JEOTERMAL
ENERJİ ARAMA
VE ÜRETİM
A.Ş.

Türkerler Jeotermal Enerji Arama ve Üretim A.Ş. made an investment for 24 MWe Geothermal Power Plant in Manisa Alaşehir. PROKON provided Multi-Discipline Engineering Services apart from the services provided by the main equipment supplier (Turbine, Generator, Pre-Heater, Recuperator) under the scope of the project.

24 MWe will be produced with the generator that is connected to two turbines, driven by the organic fluid "N-Pentane".

PROKON provided the following services under the scope of project;

- General Layout
- All Detail Design Services (Structural Steel, Reinforced Concrete, Electrical - Automation, Architectural, Piping, Infrastructure)
- All Basic Engineering Services apart from the Scope of Main Equipment Supplier.



ANKARA 770 MW COMBINED CYCLE NATURAL GAS POWER PLANT

Ankara, TURKEY

Client: BAYMİNA
ENERJİ A.Ş.

Engineering and Design Services including Multi-Discipline Engineering, Architectural Services and Coordination, Site Technical Support were within the scope of the project. Also the detailed services are listed below:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The followings structures and units are designed by PROKON:

- Machine Hall
- HRSG (Boiler) Reinforced Concrete Structures
- Workshop & Store
- Electrical Annex
- Cooling Tower Basin
- Cooling Water Pump House & Cooling, Water Return Structure
- Demineralization Plant
- Fire Fighting Pump House
- Pipe Rack & Cable Trenches
- Oil Pit & Wash Water Pit & Drain System Pits
- Owners Metering Station
- HVAC Room
- HVAC-Boiler House
- Cooling Water Pipes Foundations
- H2 Station
- Guard House
- Garbage Collection Area
- RMS-A Shelter Building
- Landscaping
- Roads
- Rainwater Drainage And Retaining Walls
- Sewerage
- Plant Waste Water And Potable Water System
- Plant Drainage System
- Pump Station
- Plant Fire Fighting System
- Biological Package & Treatment Plant
- Plant Process Water System
- Process Water Drain System
- Cable Pits And Conduits
- Piping Channel And Galleries
- Structures for Transport, Traffic, Fencing Etc.



ÇAYIRHAN 2x150 MW COAL-FIRED POWER PLANT

Ankara, TURKEY

Client: TEAŞ

The scope of the project covered Engineering and Design Services including Multi-Discipline Engineering, Architectural Design and Site Technical Support of 2x150 MW Coal-Fired Power Plant in Ankara. The detailed services were:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and unit are designed by PROKON:

- | | |
|--|-------------------------------------|
| ■ Boiler House Foundation and Steel Platform | ■ Sewerage System |
| ■ Electro Filter Area Foundations | ■ Pipe Galleries and Cable Channels |
| ■ Turbine House | ■ Coal Bunkers |
| ■ Stack | ■ Ash Bunkers |
| ■ Intermediate Building | ■ Flue Gas, Air and Cold Gas Ducts |
| ■ Transformers & Switchyard Foundations | ■ Tanks for FGD System |
| ■ Water Treatment Plant | ■ Tanks for Steam Generating Units |
| ■ Raw Water Intake with Jetty | ■ Fire Fighting Tank |
| ■ Raw Water Basin | ■ Raw Water |
| ■ Lime Milk Preparation Building | ■ Domestic Water |
| ■ Fire Fighting Pump House | ■ Main Cooling Water |
| ■ Compressor & Diesel Generator Building | ■ Compressed Air |
| ■ H2 Generating Plant | ■ Instrument Air |
| ■ Waste Water Recovery Plant | ■ Service Air |
| ■ Water and Absorbent Feed Tanks | ■ Heating and Hot Water |
| ■ Flue Gas Desulphurization System ; | ■ Auxiliary Steam |
| ■ Scrubber Structure | ■ Auxiliary Cooling Water |
| ■ Service Building | ■ Fire Fighting Water |
| ■ Gypsum Pre-Dewatering Building | |
| ■ Absorbent Preparation Building | |
| ■ Foundations for Emergency Storage | |
| ■ Cooling Water Towers | |
| ■ Cooling Water Pump House | |
| ■ Pipe Bridges | |
| ■ Coal Handling System | |
| ■ Ash Handling System | |
| ■ Modifications of Existing Buildings | |
| ■ HVAC | |
| ■ Fire Fighting | |
| ■ Domestic Water Installations | |
| ■ Roads and Paved Areas | |
| ■ Rainwater Collection and Disposal System | |



KANGAL 2x150 MW COAL-FIRED POWER PLANT

Sivas, TURKEY



Client: TEAŞ

The scope of the project covered Engineering and Design Services including Multi-Discipline Engineering, Architectural Design and Coordination and Site Technical Support. The detailed services were:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and units are designed by PROKON:

- | | |
|---|---|
| ■ Boiler House | ■ Water Intake Structure |
| ■ Turbine House | ■ Workshop and Warehouse |
| ■ Bunkers | ■ Administration Building |
| ■ Electrical Control Building | ■ Cafeteria |
| ■ Water Treatment Plant | ■ Roads |
| ■ Cooling Towers | ■ Rainwater Drainage |
| ■ Auxiliary Boiler House | ■ Sewage |
| ■ Raw Water Tanks | ■ Cable Galleries |
| ■ Coal Handling System including
Crushing Plant, Screening Plant, Coal
Yard, etc. | ■ Piping Channel & Galleries |
| ■ Ash Handling System including Ash
Bunkers, Conveyor Lines, Ash Deposits
Area, Ash Dam, etc. | ■ Waste Water Removal and Ash Water
Storing Dam |
| ■ Cooling Water Pipelines | ■ Rehabilitation of Electrofilter & Ash
Transportation Lines |
| ■ Compressed and Instrument Air
Pipelines | |
| ■ Auxiliary Steam Lines | |
| ■ Fuel Lines | |
| ■ Heating Lines | |
| ■ 5000 m ³ Fuel-Oil Tank | |
| ■ Fire Fighting Pump House and Lines | |
| ■ Raw Water Supply | |
| ■ Technological Wastewater Removal
System (Pumps, Pipelines, etc.) | |
| ■ Chimneys | |
| ■ Electro Filters | |
| ■ Wastewater Treatment Plant | |



power



ÇATALAĞZI 2x150 MW COAL-FIRED POWER PLANT

Ankara, TURKEY

Client: TEAŞ

Engineering and Design Services including Multi-Discipline Engineering, Architectural Services and Site Technical Support were within the scope of the project. Also the detailed services are as follows:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and units are designed by PROKON:

- | | |
|--|--|
| ■ Boiler House | ■ Auxiliary Steam Lines |
| ■ Turbine House | ■ Heating Lines |
| ■ Bunkers | ■ Fuel Lines |
| ■ Electrical Control Building | ■ 5000 m ³ Fuel-Oil Tank |
| ■ Water Treatment Plant | ■ Fire Fighting Pump House and Lines |
| ■ Cooling Towers | ■ Raw Water Supply Roads |
| ■ Auxiliary Boiler House | ■ Rainwater Drainage |
| ■ Raw Water Tanks | ■ Sewage |
| ■ Coal Handling System including
Crushing & Screening Plant, Coal Yard,
etc. | ■ Cable Galleries |
| ■ Ash Handling System including
Elutriation, Ash Channel, etc. | ■ Piping Channel & Galleries |
| ■ Chimneys | ■ 11 m ³ /sec Getting Water from Sea and
Giving It Back to Sea Rotating Drum
Grill Systems. |
| ■ Electrostatic Precipitators | |
| ■ Wastewater Treatment Plant | |
| ■ Water Intake Structure | |
| ■ Workshop & Warehouse | |
| ■ Administration Building | |
| ■ Ash & Slug Conveying Lines | |
| ■ Cafeteria | |
| ■ Housing Apartments | |
| ■ Cooling Water Pipelines | |
| ■ Compressed and Instrument Air
Pipelines | |



2x60 MW GİRNE POWER PLANTS

Girne, TURKISH REPUBLIC OF NORTHERN CYPRUS (T.R.N.C.)

Client:
GENERAL
DIRECTORATE
OF TURKISH
ELECTRICITY
AUTHORITY

The scope of the project covered:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and units are designed by PROKON:

- Boiler House
- Turbine House
- Electrical Control Building
- Chimney
- Water Treatment Plant
- Auxiliary Boiler and Diesel Generator House
- Switchgear Buildings and Transformers
- Water Intake Structure
- Administration Building
- Workshop & Warehouse
- Fuel-Oil Handling System
- 3 x 20.000 m³ Fuel Tank
- 800 m³ Fuel Tank
- Transfer Pump Station
- Fuel Pipe Lines
- Fuel Unloading Sea Station
- Steam and Condense Lines
- Cooling Water Pipelines
- Compressed & Instrument Air Piping
- Auxiliary Steam Piping
- Heating Lines
- Auxiliary Cooling Water Lines
- Insulation
- Compressor Station Roads
- Rainwater Drainage
- Sewage
- Cable Galleries
- Piping Channel & Galleries
- 6 m³/sec Cooling Water Intake and Discharge Structures and Lines Including Pump House





KEMERKÖY THERMAL POWER FLUE GAS DESULPHURIZATION PLANT

Muğla, TURKEY

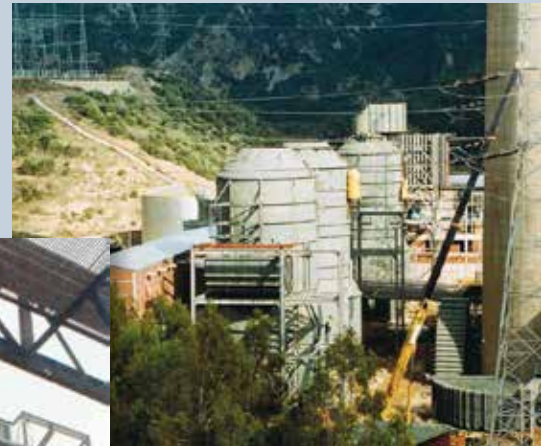
Client: GAMA INC.

The scope of the project covered:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and units are designed by PROKON:

- | | |
|---|--|
| ■ Truck Unloading | ■ Service Water |
| ■ Crusher Building | ■ Raw Water |
| ■ Limestone Silo | ■ Fire Water |
| ■ Limestone Milk Preparation Building | ■ Hot Water |
| ■ Conveyors and Supporting Structures | ■ Service Compressed Air |
| ■ Scrubber Platforms and Foundations | ■ Instrument Air |
| ■ Drainage Pits | ■ Cooling Water |
| ■ Elevator Towers | ■ Plant Arrangement and Site Infrastructure Design |
| ■ Compressor Building | ■ Roads |
| ■ Gypsum Dewatering & Storage Structure | |
| ■ Pipe and Cable Racks | |
| ■ Pump Rooms | |
| ■ Electrical Rooms | |
| ■ I/O Rooms | |
| ■ Battery Room | |
| ■ Transformer Rooms | |
| ■ Process Piping | |
| ■ Earthing | |
| ■ Cable Racks | |
| ■ Power Distribution | |
| ■ Building and Fields Lighting | |
| ■ Communication and Alarm Systems | |



YEDİGÖZE SANİ BEY DAM & HYDROELECTRIC POWER PLANT

Adana, TURKEY

Client:
SANKO YEDİGÖZE
ELEKTRİK ÜRETİM
VE TİCARET A.Ş.

PROKON-EKON Group of Companies has undertaken the Design, Engineering, Manufacturing, Erection, Testing and Commissioning of all Hydromechanical Equipment, and Civil Works for Water Intake Structure, Spillway Structure and Penstock Supports for Yedigöze Sani Bey Dam and Hydroelectric Power Plant.

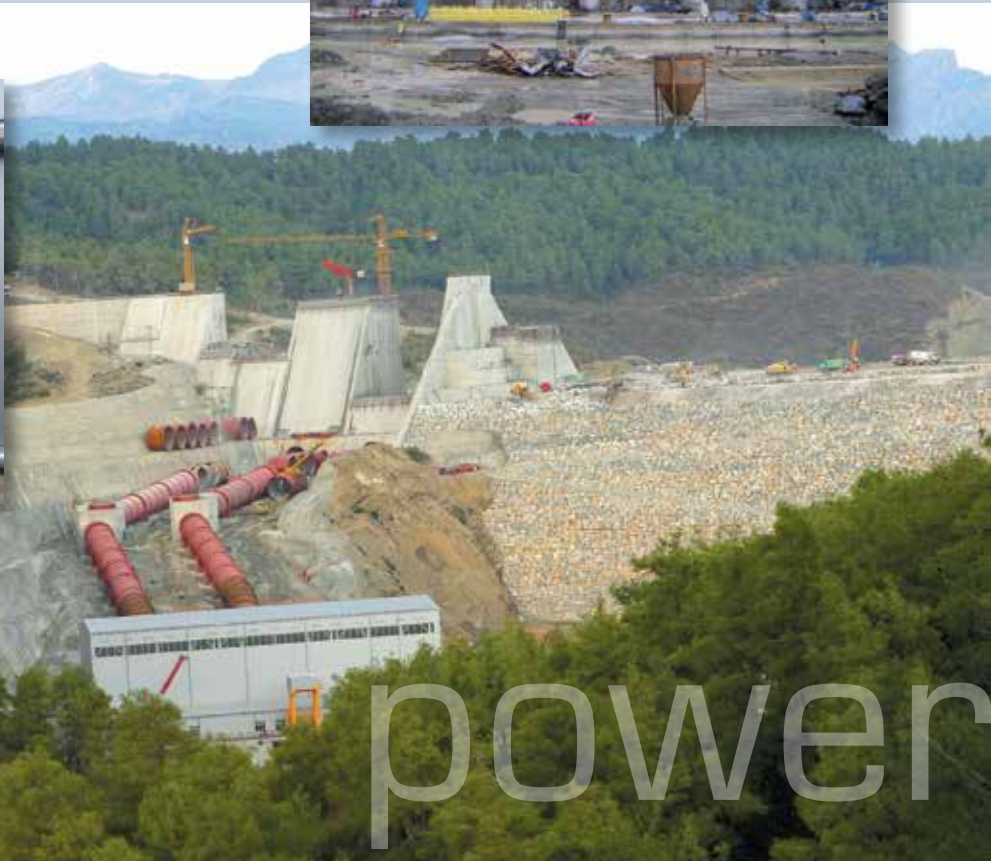
Yedigöze Sani Bey Dam is a rock fill dam and the upstream face is covered with reinforced concrete, thalweg elevation is 105 m and the crest elevation is 131 m.

The hydroelectric plant is composed of two units, which has 369,84 m³/s maximum project inflow 95,50 m gross head and 317 MW installed capacity.

PROKON provided the Design and Engineering Services for all Hydromechanical Equipment in this project.

The following equipment were designed under the scope of this project:

- Water Intake Structure Stoplog and Hoisting Beam
- Plant Building Inlet Pipe Gate and Hoisting Beam
- Spillway Stoplog and Hoisting Beam





ORHANELI THERMAL POWER FLUE GAS DESULPHURIZATION PLANT

Bursa, TURKEY

Client: TEAŞ

In the scope of this project, Engineering and Design Services including Multi-Discipline Engineering, Architectural Services and Site Technical Support were covered.

Detailed services:

- Plant Lay-Out
- Topographical Survey & Set Out of Grid Lines
- Geotechnical Survey & Report
- Site Preparation
- Architectural and Engineering Design Services Including Structural, Mechanical, Piping, Electrical and I&C
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units and Engineering Disciplines

The following structures and units are designed by PROKON:

- | | |
|---------------------------------------|--------------------------|
| ■ Truck Unloading | ■ Hot Water |
| ■ Crusher Building | ■ Service Compressed Air |
| ■ Limestone Silo | ■ Instrument Air |
| ■ Limestone Milk Preparation Building | ■ Cooling Water |
| ■ Conveyors and Supporting Structures | ■ Roads |
| ■ Scrubber Platforms and Foundations | ■ Raw Water |
| ■ Drainage Pits | ■ Fire Water |
| ■ Elevator Towers | ■ Hot Water |
| ■ Compressor Building | ■ Service Water |
| ■ Gypsum Dewatering and Storage | |
| ■ Pipe and Cable Racks | |
| ■ Pump Rooms | |
| ■ Electrical Rooms | |
| ■ I/O Rooms | |
| ■ Battery Room | |
| ■ Transformer Rooms | |
| ■ Earthing | |
| ■ Cable Racks | |
| ■ Power Distribution | |
| ■ Building and Field Lighting | |
| ■ Communication and Alarm Systems | |
| ■ Service Water | |
| ■ Raw Water | |
| ■ Fire Water | |



power plants references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
841	KOLIN KALYON JOINT VENTURE	AKKUYU NGPP ASSISTANCE TO THE CLIENT FOR TENDERING PHASE	KOLIN KALYON JOINT VENTURE	MERSIN	TURKEY	Project covers technical support during construction period.
835	ÇAN KÖMÜR VE İNŞAAT A.Ş.	ÇAN 2 THERMAL POWER PLANT	ÇAN KÖMÜR VE İNŞAAT A.Ş.	ÇANAKKALE	TURKEY	The project covers multi discipline detail design services.
816	ENERJISA POWER GENERATION COMPANY	TUFANBEYLİ THERMAL POWER PLANT, RAW WATER SUPPLY SYSTEM - ERECTION & CONSTRUCTION	ENERJISA POWER GENERATION COMPANY	ADANA	TURKEY	Multi discipline basic design and detail design services are provided for the EPC project.
810	KROMAN STEEL IND. INC.	2x600 MW BANDIRMA THERMAL POWER PLANT - PREPARATION OF FEASIBILITY PROJECTS	AKDENİZ CONSULTANCY (AHMET ZORLU)	BALIKESİR	TURKEY	Project covers basic design services in process and piping, and mechanical equipment disciplines.
809	TASZEMİN İNŞ. MADENCİLİK SANAYİ	CIRPILAR THERMAL POWER PLANT - PREPARATION OF PROSESS DIAGRAMS	TASZEMİN İNŞ. MADENCİLİK SANAYİ	EDREMIT	TURKEY	Project covers technical support during bidding period.F8:N8
797	TAQA	AFŞİN ELBİSTAN-B 2 BOILER UNIT BUILDING FIRE DAMAGE	TAQA	AFŞİN ELBİSTAN	TURKEY	Project covers technical support during construction period.
795	ATLAS ENERJİ	ISKENDERUN T.S. DESALINATION PLANT ENGINEERING SERVICES	ATLAS ENERJİ	ISKENDERUN	TURKEY	Project covers multi discipline detail design services and technical support during construction period.
792	DOSAB DEMİRTAS OİZ	COGENERATION PLANT ENGINEERING, CONSULTING & SUPERVISION SERVICES	DOSAB	BURSA	TURKEY	The main purpose of the project is to provide the necessary process steam for industrial processes and power generation. The scope of the Project is preparing the tender files and construction supervision services.
790	TÜRKERLER	24 MWe GEOTHERMAL ELECTRICAL POWER PLANT	TÜRKERLER	ALAŞEHİR MANİSA	TURKEY	Project covers multi discipline detail design services, construction management and supervision services during construction period.
782	ISKENDERUN OSB DEPARTMENT	WATER SUPPLY PROJECT FROM DEREBANI CREEK FOR ISKENDERUN OSB	ISKENDERUN OSB DEPARTMENT	ISKENDERUN	TURKEY	Project covers multi discipline detail design services.
770	ATLAS ENERJİ	2x600 MW THERMAL POWER PLANT COAL UNLOADING AND HANDLING SYSTEM ENGINEERING SERVICES	ATLAS ENERJİ	ISKENDERUN	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
764	STF Sp.A	GEBZE 850 MW CCGT HRSG UNIT 11-12 CASING WORKSHOP DRAWINGS	PROKON İMALAT VE MONTAJ A.Ş.	GEBZE	TURKEY	The project covers the detail design services in steel and mechanical equipment disciplines.
757	YENİ AEN İNŞAAT A.Ş.	850 MW COMBINED CYCLE POWER PLANT IN GEBZE CONSULTANCY SERVICES FOR CIVIL, MECHANICAL & LIGHTING ENGINEERING DESIGN	EKON A.Ş.	GEBZE İSTANBUL	TURKEY	The Project covers multi discipline basic design, detail design services and technical support during construction period.
749	ATLAS ENERJİ	ISKENDERUN THERMAL POWER PLANT ENGINEERING AND CONSULTANCY SERVICES	ATLAS ENERJİ	ISKENDERUN	TURKEY	The Project covers multi discipline detail design services, construction management and site supervision services during construction period. The Iskenderun Power Plant Project in Turkey includes two 600 MW units with two supercritical type pulverized coal fired boilers, two condensing steam turbine generator sets and auxiliary systems.
748	ATLAS ENERJİ	ISKENDERUN THERMAL POWER PLANT SEA WATER INTAKE AND DISCHARGE SYSTEM ENGINEERING SERVICES	ATLAS ENERJİ	ISKENDERUN	TURKEY	The project covers multi discipline basic design services, construction management and site supervision services during construction period.
747	GALATA ENERJİ	SIRNAK POWER PLANT CONSULTANCY SERVICES	RE-GMBH	SIRNAK URFA	TURKEY	The project covers technical support during construction period.
741	PARK TEKNİK ELEKTRİK MADEN TURİZM SAN. VE TİC. A.Ş.	AFSİN ELBİSTAN B THERMAL POWER PLANT BELT DISTRIBUTION CENTER PROJECT	PARK TEKNİK ELEKTRİK MADEN TURİZM SAN. VE TİC. A.Ş.	K. MARAS	TURKEY	The project covers multi discipline basic design and detail design services.
735	SANKO YEDİGOZE ELEKTRİK ÜRETİM VE TİCARET A.Ş.	YEDİGOZE DAM AND HEPP HYDRO MECHANICAL EQUIPMENT PROJECT DESIGN SERVICES	EKON A.Ş.	ADANA	TURKEY	The project covers the detail design services in mechanical equipment discipline.
732	EUAS ELECTRICITY GENERATION INC.	REHABILITATION AND FULL REPOWERING OF AMBARLI FUEL-OIL POWERPLANT UNITS 4 AND 5 CONVERSION TO DUAL FUEL COMBINED CYCLE POWER PLANT	EPP JOINT VENTURE	AMBARLI İSTANBUL	TURKEY	The Project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
731	ATLAS ENERJİ	HYDROLOGY REPORT OF ASH STORAGE AREA	ATLAS ENERJİ	ISKENDERUN	TURKEY	The project covers technical support during construction period.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
730	ICDAŞ ÇELİK ENERJİ TERSANE VE ULASIM SANAYİ A.Ş.	RAW WATER SUPPLY PROJECT FROM THE SEA ENGINEERING SERVICES	ICDAŞ ÇELİK ENERJİ TERSANE VE ULASIM SANAYİ A.Ş.	CANAKKALE	TURKEY	The project covers multi discipline basic design and detail design services for raw water supply from the sea.
722	ENERJISA ENERJİ ÜRETİM A.Ş.	THERMAL POWER PLANT PROJECTS ENGINEERING, CONSULTANCY AND SUPERVISION SERVICES	ENERJISA ENERJİ ÜRETİM A.Ş.	BANDIRMA, BALIKESİR	TURKEY	The project covers infrastructural basic design and detail design services and site supervision during construction period.
719	PROEN ENERJİ VE MADENCİLİK SANAYİ VE TİCARET A.Ş.	HPP PROJECTS ENGINEERING SERVICES	PROEN ENERJİ VE MADENCİLİK SANAYİ VE TİCARET A.Ş.	GIRESUN, MUĞLA	TURKEY	The project covers multi discipline basic design and detail design services.
697	ENERJISA ENERJİ ÜRETİM A.Ş.	TUFANBEYLİ LIGNITE FIRED THERMAL POWER PLANT CONSULTANCY SERVICES	ENERJISA ENERJİ ÜRETİM A.Ş.	TUFANBEYLİ ADANA	TURKEY	The project covers technical support during construction period.
684	TGO TEKFEN GAMA JOINT VENTURE	MARITSA POWER PLANT ENGINEERING SERVICES	TGO TEKFEN GAMA JOINT VENTURE	MARITSA	BULGARIA	<ul style="list-style-type: none"> • Engineering design services including structural, mechanical • Coordination between units and engineering disciplines
672	EUAS ELECTRICITY GENERATION INC.	AFSİN ELBİSTAN B THERMAL POWER PLANT RAW WATER SUPPLY SYSTEM ENGINEERING AND DESIGN SERVICES	ENER INC.	AFSİN ELBİSTAN K.MARAS	TURKEY	The project covers multi discipline basic design and detail design services to supply necessary raw water from Battal Bridge downstream.
654	TURKISH COAL ENTERPRISES	COAL WASHING PLANT	MAYDA MADENCİLİK İNŞ. TAŞ. SAN. VE TİC. A.Ş.	SOMA MANİSA	TURKEY	<ul style="list-style-type: none"> • Soma-A, Cooling Tower Rehabilitation Project • Soma-B, Coal Handling Plant, Retaining Walls
646	GAMA POWER SYSTEMS INC.	COMBINED CYCLE NATURAL GAS POWER PLANT	GAMA POWER SYSTEMS INC.	SAMRA	JORDAN	Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.
645	TURKISH ELECTRICITY GENERATION INC.	AFSİN - ELBİSTAN A THERMAL POWER PLANT REHABILITATION WORKS CONSULTANCY SERVICES	TURKISH ELECTRICITY GENERATION INC.	AFSİN - ELBİSTAN K.MARAS	TURKEY	<p>Multi-discipline engineering services, coordination and site technical support were within the scope of the project.</p> <p>The followings are the buildings and structures within scope of work provided by PROKON.</p> <ul style="list-style-type: none"> • Domestic Waste Water Treatment Plant
632	ICDAŞ ÇELİK ENERJİ TERSANE VE ULASIM SANAYİ A.Ş.	ICDAŞ POWER PLANT WATER INTAKE FOR COOLING SYSTEM ENGINEERING SERVICES	ICDAŞ ÇELİK ENERJİ TERSANE VE ULASIM SANAYİ A.Ş.	BİGA CANAKKALE	TURKEY	<p>Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.</p> <p>The followings are the buildings and structures within scope of work provided by PROKON.</p> <ul style="list-style-type: none"> • Water intake under sea • Piping • Pump station • Water pond • Pressure dropping structure
616	MINISTRY OF ENERGY AND NATURAL RESOURCES GENERAL DIRECTORATE OF STATE HYDRAULIC WORKS	DERİNER DAM AND POWER PLANT AGGREGATE CRUSHING - SCREENING - WASHING INSTALLATIONS BELT CONVEYORS	ERG İNŞAAT TİCARET VE SANAYİ A.Ş.	ARTVİN	TURKEY	<p>Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.</p> <p>The followings are the buildings and structures within scope of work provided by PROKON.</p> <ul style="list-style-type: none"> • Aggregate Crushing, Screening, Washing Plant • Conveyors
585	TURKISH ELECTRICITY GENERATION INC.	ÇAN THERMAL POWER PLANT MAIN COOLING SYSTEM ELECTRICAL PROJECT	MİMAĞ MAKİNE VE İNŞAAT SAN. LTD. STİ.	ÇAN ÇANAKKALE	TURKEY	The project covers basic design and detail design services in electrical discipline and site supervision services during construction period.
584	TURKISH ELECTRICITY GENERATION INC.	KANGAL THERMAL POWER PLANT REHABILITATION OF 1.,2. UNITS ELECTRO FILTER AND ASH TRANSMISSION LINE	PROKON MANUFACTURING AND ERECTION INC.	KANGAL SİVAS	TURKEY	The project covers multi discipline basic design and detail design services.
569	FORTUM ENG. FINLAND	125MW THERMAL POWER PREPARATION OF PRE-BIDDING	GAMA ENDÜSTRİ TESİSLERİ İMALAT VE MONTAJ A.Ş.	SHANNONSBRIDGE LANESBOROUGH	IRELAND	The project covers basic design services in architecture, reinforced concrete and steel disciplines.

power plants references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
561	SIEMENS GERMANY	HUNTSTOWN CCGT PLANT	GAMA ENDUSTRI TESISLERI IMALAT VE MONTAJ A.S.	HUNTSTOWN	IRELAND	The project covers basic design services in architectural, reinforced concrete and steel disciplines.
556	TURKISH ELECTRICITY GENERATION INC.	KANGAL THERMAL POWER PLANT REHABILITATION OF 1. & 2. UNITS ELECTRO FILTER AND ASH TRANSMISSION LINE	TEAŞ	KANGAL SIVAS	TURKEY	The project covers multi discipline basic design and detail design services.
550	GAMA - TEKFE	ISKENDERUN POWER PLANT SITE FACILITIES	GAMA - TEKFE	SUGOZU ISKENDERUN	TURKEY	The project covers basic design and detail design services in infrastructure and electrical disciplines.
549	TEAS GENERAL DIRECTORATE	AFSIN ELBISTAN B THERMAL POWER PLANT RAW WATER SUPPLY SYSTEM ENGINEERING AND DESIGN SERVICES	ENER INC.	AFSIN ELBISTAN K.MARAS	TURKEY	Multi-Discipline engineering services, coordination site technical support were within the scope of the project.
541	ISKENDERUN ENERJİ ÜRETİM VE TİCARET A.Ş.	ISKENDERUN SUGOZU POWER PLANT	GAMA - TEKFE	SUGOZU ISKENDERUN	TURKEY	Multi-Discipline engineering, coordination and site technical support were within the scope of the project.
534	TEAS GENERAL DIRECTORATE	POWER PLANTS ELIMINATION OF EARTHQUAKE DAMAGES AND RETROFITTING PROJECT	EKON A.Ş.	TEAS-KAYNASLI YALOVA, KARAMURSEL, DİL İSKELESİ, BOLU, OSMANCA AND CAYIRHAN TRANSFORMER STATIONS	TURKEY	The project covers basic design and detail design services in architectural, reinforced concrete and steel disciplines.
503	TURKISH ELECTRICITY GENERATION INC.	3X210 MW KEMERKOY POWER PLANT PROCESS PIPING DESIGN SERVICES	BABCOCK - WILCOX COMPANY & GAMA ENDUSTRI TESISLERI IMALAT & MONTAJ A.S.	MUGLA	TURKEY	The project covers basic design and detail design services in process and piping discipline.
500	TURKISH ELECTRICITY GENERATION INC.	VAN POWER FACILITIES	ENER INC.	VAN	TURKEY	Multi-Discipline engineering services, coordination and site technical support were within the scope of the project. The followings are the buildings and structures within scope of work provided by PROKON. <ul style="list-style-type: none"> • Foundation Design of the structures and buildings • Sewage network • Potable water network • Rain water network • Transformer foundations • Fuel-oil tank farm
493	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	3X210MW KEMERKÖY THERMAL PLANT PURIFICATION OF CHIMNEY GAS DETAIL ENGINEERING SERVICES	GAMA ENDUSTRI TESISLERI IMALAT VE MONTAJ A.S.	KEMERKÖY	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
491	ERE ELECTRICITY PRODUCTION AND DISTRIBUTION INC.	WATER ROOF DAM AND HYDROELECTRIC PLANT	ERE ENGINEERING	K. MARAŞ	TURKEY	The project covers basic and detail design and construction management and site supervision services during construction period.
482	MITSUBISHI	WATER TAKE SYSTEM OF AL-ZARA THERMAL POWER PLANT	MITSUBISHI	AL-ZARA	SYRIA	<ul style="list-style-type: none"> • Water intake structure • Pipe line
477	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	KEMERKOY THERMAL PLANT PURIFICATION OF CHIMNEY GAS DETAIL ENGINEERING SERVICES	BABCOCK - WILCOX COMPANY & GAMA ENDUSTRI TESISLERI IMALAT & MONTAJ A.S.	KEMERKOY	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
473	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	SEYIT OMER THERMAL POWER PLANT ASH DAM AND ASH CONVEYING SYSTEM PROJECT	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	SEYITOMER KUTAHYA	TURKEY	<ul style="list-style-type: none"> • Unit no 2. Ash Disposal Conveyor, • Unit no 2. Coal Transfer Conveyors and Structures, • Unit no 3. Cooling Water Piping system, • Unit no 1., 2., 3., 4. Alternative ash transport system • Unit no 1., 2., 3., 4. Ash disposal area rehabilitation • Ash dam and ash transport system to the dam.
471	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	CATALAGZI B THERMAL POWER PLANT STORAGE ORE CONVEYING SYSTEM FOR ASH AND SLACK	GENERAL DIRECTORATE OF TEAS DEPARTMENT OF CONSTRUCTION	CATALAGZI ZONGULDAK	TURKEY	Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.
380	TEAS GENERAL DIRECTORATE	ORHANELI POWER PLANT F.G.D. RETROFIT	KRC NOELL	BURSA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
375	TEAS GENERAL DIRECTORATE	TEAS 2X160 MW CAYIRHAN THERMAL POWER PLANT. EXTENTION UNITS 3 AND 4 ENGINEERING SERVICES	GURIS INSAAT VE MUHENDISLIK A.S.	CAYIRHAN ANKARA	TURKEY	The project covers multi discipline basic design and detail design services for 3rd and 4th extension units.
299	TURKISH ELECTRICITY GENERATION INC.	2X150 MW CATALAGZI THERMAL POWER RAW AND COOLING WATER SYSTEMS DESIGN AND ENGINEERING SERVICES	KUTLUTAS	CATALAGZI ZONGULDAK	TURKEY	The project covers multi discipline basic design and detail design services.
280	TEAS GENERAL DIRECTORATE	2x60 MW KKTC GIRNE THERMAL POWER RAW AND COOLING WATER SYSTEMS DESIGN AND ENGINEERING SERVICES	KUTLUTAS	KYRENIA	N.C.T.R.	The project covers multi discipline basic design and detail design services. Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.
220	TEAS GENERAL DIRECTORATE	AMBARLI 1350 MW COMBINED CYCLE NATURAL GAS POWER PLANT COOLING WATER SYSTEMS DESIGN AND ENGINEERING SERVICES	KUTLUTAS	ISTANBUL	TURKEY	The project covers multi discipline basic design and detail design services for cooling water units of natural gas power plant.
130	TEAS GENERAL DIRECTORATE	KANGAL 2X150 MW THERMAL POWER PLANT DESIGN, ENGINEERING, CONSULTING AND SUPERVISION SERVICES	TEAS GENERAL DIRECTORATE	KANGAL SIVAS	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period. Multi-Discipline engineering services, coordination and site technical support were within the scope of the project.



The background of the slide features a large, curved, glass-paneled structure, likely a modern architectural element of a building. The structure is composed of many horizontal and vertical lines, creating a grid-like pattern. The color of the structure is a light blue-grey, matching the overall color scheme of the slide. The structure is positioned on the left side of the slide, with its curve extending towards the center.

Cement Industry



cement

ÇİMKO NARLI CEMENT PLANT (7500 TONS/DAY CLINKER CAPACITY)

Kahramanmaraş, TURKEY

Client:
ÇİMKO ÇİMENTO
VE BETON SANAYİ
TİCARET A.Ş.

The scope of the project is the turnkey design and construction works of cement plant having 7500 tons/day clinker production capacity in Narlı, Kahramanmaraş. PROKON-EKON Group of Companies has undertaken the services under an EPC Contract with ÇİMKO Çimento A.Ş., a subsidiary of SANKO Holding.

PROKON carried out the general and detail design of the whole plant including auxiliary units and infrastructure works as well. The scope covered the architectural, civil, structural steel, reinforced concrete, mechanical, electrical and infrastructure design of all units.

The plant became the longest cement production line of Turkey with its single kiln, stock hall and silo capacities. The plant has been completed and put into operation in a short period of time, 18 months, as the imported part of mechanical equipment were made ready by client before the award of the contract.

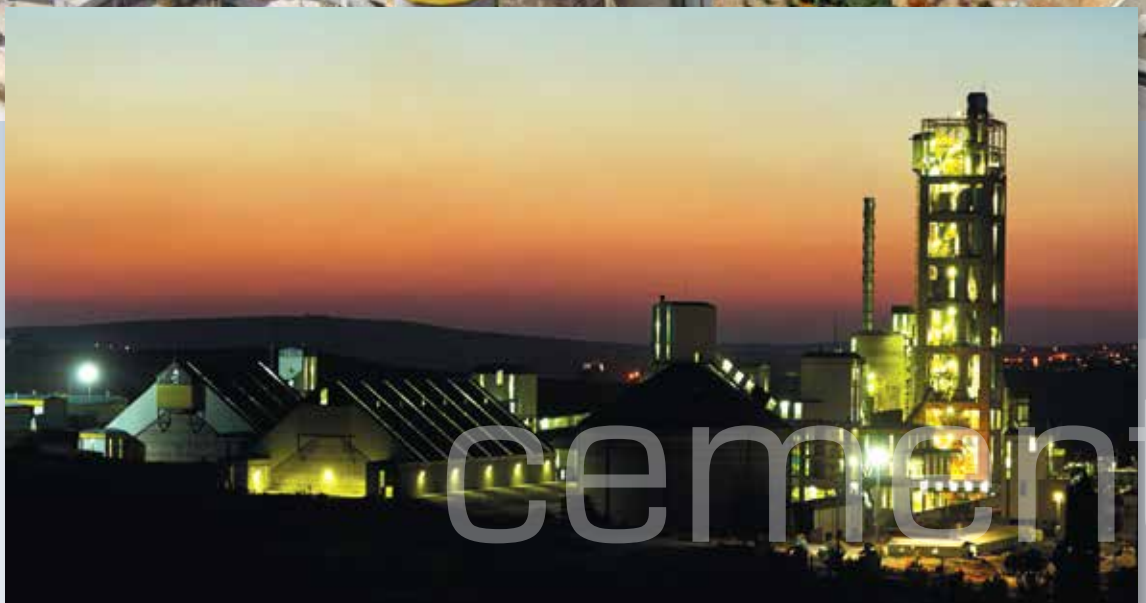
The following structures and units are designed by PROKON:

- Coal Crushing Plant
- Circular Coal Mixing Bed
- Shale Crushing Building
- Limestone Crushing Building
- Longitudinal Shale Blending Bed
- Limestone & Shale Storage Building
- Circular Limestone Blending Bed
- Raw Material Storage Bins
- Raw Mills & Bag Filters (3 nos. 280 tons/hour each)
- Hot Gas Ducts & Cooling Towers (3 nos.)
- 2 Raw Mill Silos (20.000 tons each)
- Coal Mills & Bag Filters (2 nos. 35 tons/hour each)
- Preheater Tower (130 m high)
- Rotary Kiln Tertiary Air Duct
- Clinker Cooler & ESP
- Clinker Silo (250.000 tons)
- Additive Storage Bins
- 3 Cement Mills having 180 tons/hour capacity
- 4 Cement Silos having 20.000 tons capacity
- Packing & Truck Heading (4 Lines)
- Fuel-Oil Storage & Treatment Plant
- Water Storage & Treatment Plant
- Main Substation, Unit Substations & Electrical Rooms
- Central Control & Management Building
- Workshops & Stores
- Raw Material & Product Truck Weighing Bridges

Amount of engineering services provided;

- 8110 A0 drawings including RC, structural steel & mechanical design





cement

CİMPOR-YİBİTAŞ HASANOĞLAN CEMENT PLANT CLINKER PRODUCTION LINE (2500 TONS/DAY CAPACITY)

Ankara, TURKEY



Client:
CİMPOR-YİBİTAŞ ÇİMENTO SANAYİ A.Ş.

The scope of the project was the turnkey design and construction works of clinker production line having 2500 tons/day capacity in existing clinker grinding facility in Ankara-Elmadağ, Hasanoğlan. PROKON-EKON Group of Companies has undertaken the services under an EPC Contract with CİMPOR-YİBİTAŞ Çimento Sanayi A.Ş.

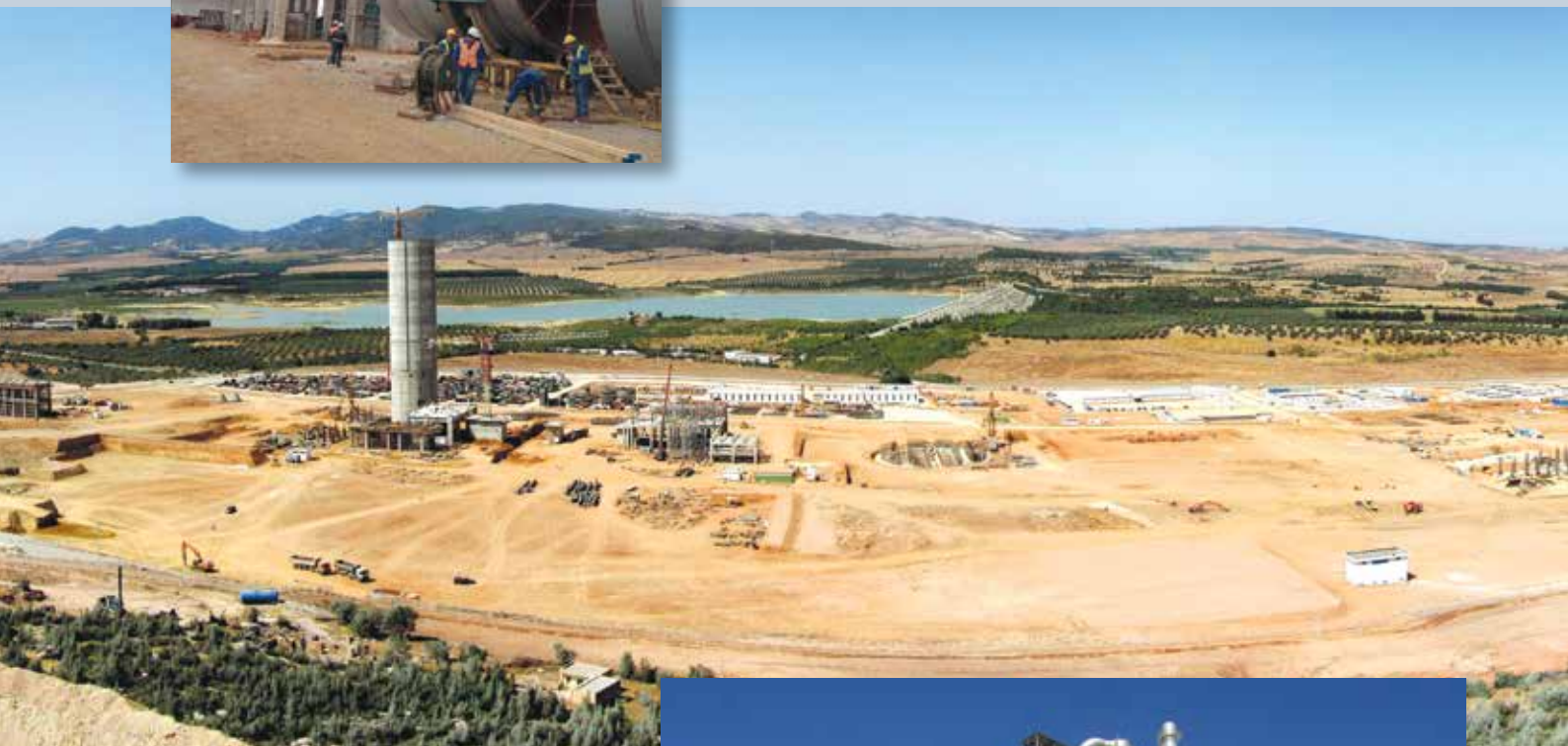
PROKON has undertaken the general design, system balance, material flow diagrams and determination of the necessities about the process-mechanical-electrical subjects of the units under the scope of the project. PROKON also provided the architectural, mechanical, electrical, steel and reinforced concrete structure and infrastructure design services.



The following structures and units are designed by PROKON:

- | | |
|---|---|
| ■ Raw Material Transport to Storage | ■ Rotary Kiln |
| ■ Clay Crusher | ■ Cooler |
| ■ Clay Transport to Storage | ■ Cooler Dedusting |
| ■ Clay Storage (5.000 tons) | ■ Cooler Discharge |
| ■ Raw Material Storage (10.500 tons) | ■ Secondary Crusher |
| ■ Raw Material Reclaiming | ■ Cement Additive Storage (15.400 tons) |
| ■ Raw Mill Hoppers & Raw Mill (185 tons/hour) | ■ Clinker Silo (70.000 tons) |
| ■ Homogenization Silo Feeding | ■ Clinker Silo Discharge |
| ■ Clay Reclaiming | ■ Cement Additives Reclaiming |
| ■ Homogenization Silo (4.000 tons) | ■ Cement Mill Hoppers |
| ■ Preheater Feeding | ■ Coal Storage (8.000 tons) |
| ■ Preheater | ■ Coal Reclaiming |
| ■ Raw Mill Dedusting | ■ Coal Mill (12 tons/hour) |





cement



CARTHAGE DJEBEL RESSAS CEMENT PLANT (5800 TONS/DAY CLINKER CAPACITY)

Tunis, TUNISIA

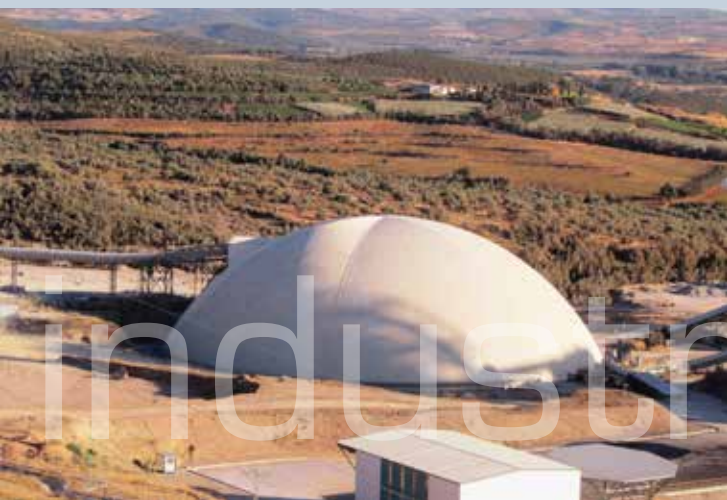
Client:
EKON ENDÜSTRİ
İNŞAAT VE
TİCARET A.Ş.

The contract was signed between Tunisian Investor-Carthage Cement and EKON Endüstri İnşaat ve Ticaret A.Ş.-PROKON İmalat ve Montaj A.Ş.-FLSmidt Consortium on February 24th, 2010. The content of the contract was the design, supply, construction and installation of a 5800 tons/day clinker production capacity cement plant at Djebel Ressas.

PROKON provided the engineering services for civil, structural steel, mechanical, electrical erection, automation and commissioning works of the plant.

The following units and structures are designed by PROKON:

- Raw Material Crushing, Conveying & Storage
- Coal Intake, Storage, Transport
- Additive Crushing, Intake, Storage, Transport
- Raw Mill
- Homogenization Silo
- Preheater, Kiln, Clinker Cooler
- By-Pass System
- Coal Mill
- Clinker Transport & Storage
- Cement Mill (1 & 2)
- Cement Silos (1, 2 & 3)
- 4 Packing Plant
- Bulk Dispatch to Trucks
- 4 Bag Dispatch to Trucks
- Palletizing Plant
- Alternative Liquid Fuel Storage
- Natural Gas Distribution
- Compressor Rooms
- Water Treatment & Distribution
- Potable Water Unit
- Weighbridges
- Electrical Substations
- Central Control Room & Laboratory
- Service Buildings (Workshop, Changing Room, Open/Closed Storage, Canteen, Administration Building, Guard House)





YAMAMA CEMENT PLANT (10.000 TONS/DAY CLINKER PRODUCTION CAPACITY)

Riyadh, SAUDI ARABIA

Client: GAMA INDUSTRY ARABIA LTD.

The project covers the turnkey construction work of Cement Production Line No: 7 having 10.000 tons/day clinker production capacity. GAMA Industry Arabia Ltd. and German Polysius AG companies have undertaken turnkey construction work together for Yamama Cement Company's existing plant in Riyadh.

The architectural, steel structure, reinforced concrete and underground earthing design services of the below indicated structures and units were carried out within the scope of this project by PROKON;

- Compound System Structures
- Raw Meal Silos (R= 18m, h= 64m)
- Pre-Heater Tower (21m x 36m x 156 m)
- Foundations of Rotary Kiln
- By-Pass System Buildings (13m x 7m x 54m)
- Clinker Cooler Unit (48m x 28m x 24m)
- Clinker Carrier Systems
- Clinker Silos (R = 32m, h = 69m)
- Central Control Building (CCR) (12 m x 18 m & 16 m)
- Cable Galleries
- Electrical Underground Earthing Projects
- Roads & Coatings
- Various Structures: Electrical Transformer Buildings, Compressor Rooms, Pipe Supports Carriers, Tunnels in Various Amounts.





BAZIAN CEMENT PLANT (7000 TONS/DAY CAPACITY)

Bazian, NORTHERN IRAQ

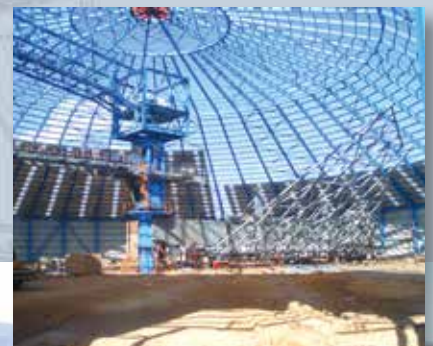
Client:
ORASCOM (EGYPT)

The construction and structural steel detail engineering services for Bazian Cement Plant were provided by PROKON. The plant has a clinker production capacity of 7000 tons/day. The technology is supplied by Polysius A.G. and the construction contractor of the project is Cementect Ltd.



The following structures and units are designed by PROKON:

- 2 Raw Material Crusher Buildings
- Raw Material & Clinker Carrier Conveyor Band Support Bridges & Reinforced Concrete Galleries
- Additive Storage (295 m x 55 m x 18.5 m)
- Pre Homogenization Hall (D=107 m , H=33 m)
- Raw Material & Cement Mills Supply Bunkers & Support Buildings
- Raw Meal Silo (D=20 m, H=96 m)
- Clinker Silo (D=47 m, H=22 m), Faulty Clinker Silo & building
- 3 Cement Silos (D=20 m, H=84 m)
- Raw Meal Mill, Cement Mill Buildings & Related Mill Foundations
- Rotary Kiln Foundation & Walkways
- Pre Heater Building (35 m x 26,5 m x 106 m)
- Clinker Cooler Building
- Packing Units
- Electrofilter Support Structures
- Various Gas Canal Support Steel Structures & Fan Foundations
- Electrical Buildings
- Cable & Pipe Bridges (approximately 1000 m)
- Fuel Oil Facilities



The project covers 99 units, and the BOQ's and engineering calculations have been calculated for each unit by PROKON Mühendislik ve Müşavirlik A.Ş.





EPCC CEMENT PLANT (3500 TONS/DAY CAPACITY)

Damman, SAUDI ARABIA

Client:
EASTERN PROVINCE CEMENT COMPANY (SAUDI ARABIA)

A new third line for the Eastern Province Cement Company (EPCC) Cement Plant, which was set up near Damman Region in Saudi Arabia, were decided additional to the existing two clinker lines. The construction and assembly works were made by GAMA Industry Arabia Ltd. (GIAL) and equipment were supplied by Polysius A.G.

The facility has been designed as having 3500 tons/day production capacity. The detail engineering services for the following structures have been provided by PROKON under the scope of this project:



- Raw Material Mill Foundation & Building: A reinforced concrete building having approximately 30 m height with concrete plate over steel floors including steel platforms & various gas canal supports.
- Raw Material Transportation Systems: Steel structures supporting air slide bands.
- Preheater Tower: A reinforced concrete structure having 110 m height, 8 floors & containing various steel platforms & steel chimneys & gas canal supports. Preheater tower also includes a stairway with 120 m height & elevator tower.
- Homogenization Silo: A reinforced concrete building with 85 m height & 16 m diameter. The silo has also a reinforced roof over steel structure, various steel platforms & raw material transport system support.
- Rotary Kiln Foundation: There are 3 separate foundations having approximately 12 m height. The foundations are connected to each other with steel walkways. Tertiary Air Line Footings were also supported on those foundations.





MEDCEM CEMENT PLANT - PLANT PACKAGE A&C [10.000 TONS/DAY CLINKER CAPACITY]

Mersin, TURKEY

Client:
MEDCEM MADENCİLİK VE
YAPI MALZEMELERİ SAN.
VE TİC. A.Ş.

PROKON provided the Multi-Discipline Engineering Services for Plant Package A & C of Cement Plant having 10.000 Tons/Day Clinker Capacity in Silifke/Mersin by MEDCEM Madencilik ve Yapı Malzemeleri San. ve Tic. A.Ş., a subsidiary of EREN Holding.

The following structures and units are designed by PROKON:

Package A

- 2 Raw Material Crushing & Transport Plant
- Prehomogenization
- Additive Storage & Transport
- Coal Preblending Plant
- Electrical Equipment
- Instrumentation
- Process Controls System
- Dispatch System

Package C

- Clinker Storage & Transport
- 3 Cement Grinding Plants
- 2 Cement Silos, Bulk Loading Stations
- Cement Packing Plants
- Big Bags Packing
- 6 Storage Plant
- Electrical Equipment
- Instrumentation
- Process Controls System
- Dispatch System



cement



ERZURUM AŞKALE NEW CLINKER LINE (3500 TONS/DAY CAPACITY)

Erzurum, TURKEY

Client:
ERZURUM AŞKALE ÇİMENTO
SANAYİ A.Ş.

The project covered the construction of a new clinker production line having 3500 tons/day production capacity on turnkey basis with an EPC contract was signed by EKON-PROKON Group of Companies.



PROKON provided the following services within the scope of project:

- Architectural, Mechanical, Reinforced Concrete & Steel Structure Design of the units
- System Balance & Material Flow Schemes
- Determination of the needs in Process, Mechanical & Electrical Points & their Connections between Existing Systems

The following structures and units are designed by PROKON:

- Preheater Tower
- Rotary Kiln Foundation
- Clinker Cooling Units
- Clinker Transportation System
- Cable Galleries
- Electrical Design
- Clinker Electro Filter Building
- Coal Mill Building
- Various Gas Canals
- Fan Foundations & Chimney



EPC TURNKEY

TRABZON CEMENT FACTORY GRINDING PLANT (85 TONS/HOUR CAPACITY)

Trabzon, TURKEY

Client:
AŞKALE ÇİMENTO
SANAYİ T.A.Ş.

Aşkale Çimento Sanayi T.A.Ş. has decided to set up a new cement grinding plant with 85 tons/hour capacity in Trabzon Facility.

EKON A.Ş. has undertaken the Engineering, Procurement, Construction (EPC) Commissioning and Start-Up Services of the New Cement Grinding Plant in Trabzon Facility on Turnkey Basis. The engineering services were provided by PROKON.

The following structures and units
are designed by PROKON;

- 3 Additive Bunkers
- Transport Systems
- Mill Building
- Cement Conveying Lines



cement industry references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
838	FLS	NYUBA PREHEATER TOWER ENGINEERING SERVICES	FLS	REPUBLIC OF DEMOCRATIC CONGO	REPUBLIC OF DEMOCRATIC CONGO	Project covers detail desing engineering services in steel discipline.
836	VOTORANTIM CEMENT	CEMENT REDUKTOR REHABILITATION ENGINEERING DESIGN WORKS	VOTORANTIM ÇİMENTO SAMSUN	SAMSUN	TURKEY	Project covers detail desing engineering services in reinforced concrete and steel disciplines.
831	VOTORANTIM CEMENT	TEMARA CEMENT PLANT - REHABILITATION FOR CLINKER TRANSPORT SYSTEM	CIMPOR-YIBİTAS (VOTORANTIM) CEMENT	RABAT	MOROCCO	Project covers multi discipline basic design and detail design services and technical support.
807	VOTORANTIM CEMENT	CLOSED COAL STOCK AREAS ENGINEERING SERVICES	CIMPOR-YIBİTAS (VOTORANTIM) CEMENT	CORUM SIVAS YOZGAT	TURKEY	Project covers multi discipline basic design and detail design services and technical support.
793	VOTORANTIM CEMENT	CLOSED CLINKER AREAS AND TRANSPORTATION SYSTEMS ENGINEERING DESIGN WORKS	CIMPOR-YIBİTAS (VOTORANTIM) CEMENT	SIVAS YOZGAT ÇORUM NEVŞEHİR	TURKEY	Project covers multi discipline basic design and detail design services and technical support.
791	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	MODIFICATION OF CEMENT TRANSPORTATION AND PREHEATER	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI, KAHRAMAN-MARAŞ	TURKEY	Project covers multi disipline detail design services.
787	MEDCEM MADENCİLİK VE YAPI MALZ.SAN. VE TİC. A.Ş.	ENGINEERING SERVICES FOR PLANT PACKAGE A & C FOR MEDCEM CEMENT PLANT WITH A CAPACITY OF 10.000 TPD CLINKER	MEDCEM MADENCİLİK VE YAPI MALZ.SAN. VE TİC. A.Ş.	SİLİFKE, MERSİN	TURKEY	Project covers multi discipline detail design services.
776	CIMPOR YİBİTAŞ ÇİMENTO SANAYİ A.Ş.	CEMENT PLANT STACK PLATFORM ENGINEERING SERVICES	CIMPOR YİBİTAŞ ÇİMENTO SANAYİ A.Ş.	HASANOĞLAN, ANKARA	TURKEY	Project covers multi discipline basic design and detail design services in steel disciplines.
774	CIMPOR YİBİTAŞ ÇİMENTO SANAYİ A.Ş.	ENGINEERING AND DESIGN SERVICES FOR CEMENT FACTORIES CLINKER PRODUCTION CLOSED AREAS	CIMPOR YİBİTAŞ ÇİMENTO SANAYİ A.Ş.	YOZGAT, SIVAS, ÇORUM, NEVSEHİR	TURKEY	Project covers multi discipline basic design and detail design services.
768	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI CEMENT PLANT STAND BY COAL HANDLING SYSTEM ENGINEERING SERVICES	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI KAHRAMAN MARAŞ	TURKEY	The project covers multi discipline basic design and detail design services.
763	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	GAZİANTEP CEMENT FACTORY-PRE HEATER BUILDING- RESTRENGTHENING DESIGN WORKS	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	GAZİANTEP	TURKEY	The project covers the basic design and detail design services in reinforced concrete discipline.
761	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI CEMENT PLANT NEW ADDITIVE FEED UNIT	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI, KAHRAMAN-MARAŞ	TURKEY	The project covers basic design services in mechanical equipment discipline.
760	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI CEMENT PLANT NEW CEMENT TRANSPORT SYSTEM	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	NARLI, KAHRAMAN-MARAŞ	TURKEY	The project covers basic design services in mechanical equipment discipline.
759	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	BALIKESİR CEMENT FACTORY COAL MILL UNIT	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	BALIKESİR	TURKEY	The project covers multi discipline detail design services and technical support.
756	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	ŞANLIURFA CEMENT PLANT TERTIARY AIR DUCT SUPPORTS ENGINEERING SERVICES	LİMAK ÇİMENTO SAN. VE TİC. A.Ş.	ŞANLIURFA	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
753	GOLTAS CEMENT INC.	ROLL MILL STACK ENGINEERING SERVICES	GOLTAS CEMENT INC.	ISPARTA	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.

cement industry references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
750	CARTHAGE CEMENT	5800 TONS/DAY CEMENT PLANT AT DJEBEL RESSAS	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	TUNUSIA	TUNUSIA	The Engineering, Procurement and Construction Works of 5800 tons/day clinker production capacity cement plant project in Djebel Ressas which has been awarded by Tunisian Investor Carthage Cement to EKON Endüstri İnşaat ve Ticaret A.Ş.-PROKON İmalat ve Montaj A.Ş.-FLSmidth Consortium. PROKON Mühendislik ve Müşavirlik A.Ş. has provided multi discipline engineering services covering civil works, structural steel, mechanical, electrical erection, automation and commissioning works of the plant.
711	CIMPOR YİBİTAŞ ÇİMENTO SANAYİ A.Ş.	CEMENT PLANT CLINKER PRODUCTION LINE (2500 TONS/DAY CAPACITY) ENGINEERING AND DESIGN SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	HASANOĞLAN ANKARA	TURKEY	The Engineering, Procurement and Construction Works of Hasanoğlu 2500 tons/day New Clinker Line Project which has been awarded by CIMPOR YİBİTAŞ Cement Industry and Trade Co. to PROKON-EKON Group of Companies on turnkey basis. PROKON Mühendislik ve Müşavirlik A.Ş. has provided multi-discipline engineering services covering the general design, system balance, material flow diagrams and determination of the necessities about the process-mechanical-electrical subjects of the units under the scope of the project.
702	BOLU CEMENT INDUSTRY INC.	SLAG - CEMENT MIXING HANDLING & STORAGE SYSTEM	BOLU CEMENT INDUSTRY INC.	BOLU	TURKEY	The project covers multi discipline basic design and detail design services.
700	NUH CEMENT IND. INC.	28.000 TONS CAPACITY CEMENT SILO AND HANDLING SYSTEM	TERBAY İNŞAAT MİMARLIK, MUHENDİSLİK VE TİCARET LTD.ŞTİ.	HEREKE, İZMİT	TURKEY	The project covers multi discipline basic design and detail design services.
694	ASKALE ÇİMENTO SANAYİ A.Ş.	TRABZON CEMENT PLANT 2 NO NEW CLINKER PRODUCTION LINE (85 TONS/HOUR CAPACITY)	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	TRABZON	TURKEY	The project covers basic design services in process and piping discipline. The facility includes the following structures; <ul style="list-style-type: none"> • 3 Additive Bunkers • Transport Systems • Mill Building • Cement Transport Lines
686	YİBİTAŞ LAFARGE	HASANOĞLAN PLANT NEW CEMENT MILL UNIT	YİBİTAŞ LAFARGE	HASANOĞLAN ANKARA	TURKEY	The project covers multi discipline basic design and detail design services.
678	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	7500 TONS/DAY CAPACITY CLINKER PRODUCTION LINE CEMENT PLANT DESIGN AND ENGINEERING SERVICES	ÇİMKO ÇİMENTO VE BETON SAN. VE TİC. A.Ş.	KAHRAMAN-MARAŞ	TURKEY	Çimko Cement Plant Project (7500 Tons/Day Clinker Capacity) is realized by EKON-PROKON Group of Companies in a shortest time by comparing to other similar projects. PROKON Mühendislik ve Müşavirlik A.Ş. provided multi discipline basic and detail design services and technical support during construction period. The Project consist of mainly those R.C. and Steel Structure units and structures: <ul style="list-style-type: none"> - 130 m high Preheater Tower - 250.000 tons clinker capacity, clinker silo with 65 m diameter. - 2 110 m in diameter, 1 90 m in diameter circular blending beds - 1 55 m in diameter, 30 m high, 300 m in length Additive storage bins. - 3 280 ton/hour raw mills and technological connections - 3 180 ton/hour cement mills and technological connections
675	AŞKALE ÇİMENTO SANAYİ A.Ş.	ASKALE CEMENT PLANT 3500 TONS/DAY CLINKER PRODUCTION LINE	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	ERZURUM	TURKEY	The project covers multi discipline basic design and detail design services.
673	UCH UNITED CEMENT HOLDING IRAK	BAZİFA CEMENT PLANT STEEL CONSTRUCTION FABRICATION DRAWING SERVICES	UCH UNITED CEMENT HOLDING IRAK	SULEYMANIYE	NORTHERN IRAK	The project covers detail design services in steel discipline.
669	BOLU CEMENT INDUSTRY INC.	ROLLER PRESS UNIT	OYAK CONSTRUCTION INC.	BOLU	TURKEY	The project covers the detail design services in reinforced concrete, steel and mechanical equipment disciplines.
666	UCH UNITED CEMENT HOLDING IRAK	BAZİFA CEMENT PLANT	KRUPP POLYSIUS ALMANYA	SULEYMANIYE	NORTH IRAK	The project covers detail design services in architectural, reinforced concrete and steel disciplines.
659	BOLU CEMENT INDUSTRY INC.	COAL HOMOGENIZING SYSTEM DESIGN SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	BOLU	TURKEY	The project covers multi discipline detail design services.
650	NUH CEMENT IND. INC.	3.CLINKER PRODUCTION LINE DESIGN AND ENGINEERING SERVICES	GÜLERMAK HEAVY INDUSTRIES CONSTRUCTION AND CONTRACTING CO.İNC.	HEREKE, İZMİT	TURKEY	The project covers multi discipline detail design services.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
649	AKÇANSA CEMENT IND. INC.	AKÇANSA AIR SLIDE SYSTEM	ETA MACHINERY INC.	ÇANAKKALE	TURKEY	The project covers basic design and detail design services in mechanical equipment discipline.
648	ADANA CEMENT INC.	1., 2., 3. PLANT STOCK ROOFING AND WALL CLADDING DESIGN SERVICES	ADANA CEMENT INC.	ADANA	TURKEY	The project covers basic and detail design services in architecture and steel disciplines.
641	DENİZLİ CEMENT INC.	80.000 TONS CLINKER STORAGE & HANDLING SYSTEM DESIGN AND ENGINEERING SERVICES	DENİZLİ CEMENT INC.	DENİZLİ	TURKEY	The project covers multi discipline basic design services.
640	ADANA CEMENT INC.	ADDITIVE MATERIAL BUNKERS AND HANDLING SYSTEM	ADANA CEMENT INC.	ADANA	TURKEY	The project covers multi discipline basic design and detail design services.
639	ADANA CEMENT INC.	4. PLANT STOCK ROOFING AND WALL CLADDING DESIGN SERVICES	ADANA CEMENT INC.	ADANA	TURKEY	The project covers basic and detail design services in architecture and steel disciplines.
626	YAMAMA CEMENT COMPANY	YAMAMA 10.000 TONS/PEAR YEAR CAPACITY CEMENT PRODUCTION LINE	GAMA INDUSTRIE ARABIA LTD.	YAMAMA, RYADH	SAUDI ARABIA	The architectural, steel structure, reinforced concrete and underground earthing design works of the below indicated structures are carried out in scope of this project by PROKON Mühendislik ve Müşavirlik A.Ş.; <ul style="list-style-type: none"> • Compound System Structures • Raw Meal Silos (R= 18m, h= 64m) • Pre-Heater Tower (21m x 36m x 156 m) • Foundations of Rotary Kiln • By-pass System buildings (13m x 7m x 54m) • Clinker Cooler Unit (48m x 28m x 24m) • Clinker Carrier systems • Clinker Silos (R = 32m, h = 69m) • Central Control Building (CCR) (12 m x 18 m and 16 m) • Cable Galleries • Electrical Underground earthing projects • Roads and Coatings
623	TEMSAN YAPI VE MAKİNA ENDÜSTRİ A.Ş.	2 X 7500 TONS CEMENT SILOS DESIGN AND ENGINEERING SERVICES	TEMSAN YAPI VE MAKİNA ENDÜSTRİ A.Ş.	NIGERIA	NIGERIA	The project covers detail design services in reinforced concrete and steel disciplines.
610	EASTERN PROVINCE CEMENT COMPANY	3500 TONS/DAY CAPACITY NEW CLINKER PRODUCTION LINE PROJECT	GAMA INDUSTRY ARABIA LTD.	DAMMAN	SAUDI ARABIA	The project covers multi discipline basic design and detail design services. The facility is designed as having 3500 ton/day capacity and following structures were in the scope of PROKON Mühendislik ve Müşavirlik A.Ş. <ul style="list-style-type: none"> • Raw Material Mill foundation and building • Raw Material transportation systems • Pre Heater Tower • Homogenization Silo • Rotary Kiln foundation
590	ADANA CEMENT INC.	FLASH ASH HANDLING SYSTEM	ADANA CEMENT INC.	ADANA	TURKEY	The project covers basic design services in mechanical equipment discipline.
557	BATI CEMENT	BATI CEMENT NEW CLINKER PRODUCTION LINE	GIMAS A.Ş.	İZMİR	TURKEY	The project covers basic design and detail design services in steel and mechanical equipment disciplines.
527	BURSA CEMENT	BURSA CEMENT PLANT TRASS DRYING AND CRUSHING FACILITIES MODIFICATION	BİLİM MAKİNA	BURSA	TURKEY	The project covers the detail design services in reinforced concrete, steel and mechanical equipment disciplines.
520	TURKMENISTAN MINISTRY OF PUBLIC WORKS	TURKMENISTAN CEMENT PLANT	TEMON MAKİNA TESİSAT MONTAJ SAN. VE TİCARET A.Ş.	TURMENISTAN	TURMENISTAN	The project covers multi discipline basic design services.
496	NUH CEMENT IND. INC.	CABLE AND PIPING BRIDGE PROJECT	NUH CEMENT INC.	HEREKE İZMİR	TURKEY	The project covers the detail design services in reinforced concrete, steel and mechanical equipment disciplines.
485	DENİZLİ CEMENT INC.	DENİZLİ CEMENT FIRST AND SECOND CLINKER PRODUCTION LINE EXTENSION PROJECT	GIMAS A.Ş.	DENİZLİ	TURKEY	The project covers multi discipline basic design and detail design services.
470	DENİZLİ CEMENT INC.	DENİZLİ CEMENT PLANT 13 MW DIESEL ELECTRICAL POWER STATION	DENİZLİ CEMENT INC.	DENİZLİ	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
469	BURSA CEMENT	TRASS CRUSHING AND DRYING FACILITIES	BURSA CEMENT	BURSA	TURKEY	The project covers multi discipline detail design services.
463	GOLTAŞ CEMENT INC.	GOLTAŞ CEMENT 3. RAW MILL EXTENTION	GOLTAŞ CEMENT INC.	ISPARTA	TURKEY	The project covers multi discipline basic design and detail design services.
457	NUH CEMENT INC.	STEEL STRUCTURE OF 174 M3 CEMENT SILO	NUH CEMENT INC.	İZMİR HEREKE	TURKEY	The project covers multi discipline basic design and detail design services for cement silo.





Iron & Steel Industry



MMK - ATAKAŞ DÖRTYOL IRON AND STEEL PLANT

Hatay, TURKEY

Client:
MMK ATAKAŞ METALURJİ
SAN. TİC. VE LİMAN
İŞLETMECİLİĞİ A.Ş.

MMK – ATAKAŞ Dört Yol Plant, with an investment value of 2 Billion USD, is an investment of Russian MMK Group and Turkish ATAKAŞ Group each with 50% shares. Design and Engineering Services of this plant in all engineering disciplines was carried out by PROKON. The plant is located in Hatay Dört Yol with an annual capacity of 2.500.000 tons of hot-rolled steel, 900.000 tons of cold-rolled steel, 800.000 tons of galvanized steel and 400.000 tons of painted steel.

The plant is considered to be the largest single lot investment in Iron and Steel Sector in the history of Turkey. The investment has attracted worldwide attention and was awarded the top prize by the Euromoney Magazine, in investment and finance category within Europe and Middle East. The facility will provide 2500 direct and 4000 indirect employment and enable a saving in national economy of around 1.5 Billion USD, annually.

Some of the structures within the plant;

- Steel Service Building
- Cold Rolled Mill
- Hot Rolled Mill
- Scrap Yard
- Melt Shop
- Air Separation Unit
- Switch Yard
- Cooling Water & Water Treatment Plant
- Auxiliary Facilities
- Office Buildings
- Harbor
- 3000+8000 = 11.000 Tons Concrete Water Tank

More than 23.000 A0 drawings were produced within the scope of Engineering Services.

Special Structures: The Emergency Water Tank of the plant is made of concrete with a height of 43,7m. The tank has a diameter of 20,8 meters between the heights of 29,2m and 43,7m and 3000 tons of demineralized water is stored in this section. The diameter of the tank between 0,00m and 29,7m is 11 meters and 8000 tons of water is stored in this part for firefighting. This structure is the first and only water tank built in Turkey with these dimensions.



MMK - ATAKAŞ DİLOVASI IRON AND STEEL PLANT

Kocaeli, TURKEY

Client:
MMK ATAKAŞ METALURJİ
SAN. TİC. VE LİMAN
İŞLETMECİLİĞİ A.Ş.

The plant is located within the New Industrial Zone in Dilovası, İzmit. Design and Engineering Services of this plant in all engineering disciplines were carried out by PROKON. The plant has an annual capacity of correcting and cutting 400.000 tons of rolled steel according to customer needs and a capacity of producing 750.000 tons of galvanized and painted steel annually.



The plant consists of the following structures and units:

- Steel Service Building
- Colled Mill Galvanizing Line
- Cold Mill Painting Line
- Air Separation Unit
- Water Treatment Facility
- Auxiliary Facilities
- Office Buildings
- 1500+1500 = 3000 Tons of Concrete Water Tank.

More than 7000 A0 drawings were produced within the scope of engineering Services.

Special Structure: The Emergency Water Tank in the facility was made of concrete with a diameter of 13 m and a height of 28 m. The tank can store 1500 tons of demineralized and 1500 tons of domestic water.



ASİL ÇELİK QUALITY PRODUCTS UNITS

Bursa, TURKEY

Client:
ASİL ÇELİK SANAYİ VE
TİCARET A.Ş.

PROKON provided Engineering and Design Services for this project.

The following structures and units are designed by PROKON:

■ ROLLING MILL:

The structure covers an area of approximately 30.000m² with 3 sections of 30m spacing each. The ridge height is 18,5 meter & the crane height is 8 m. There exists many equipment foundations, engine & generator buildings, tunnels & channels within the sections of the structure & these parts go as low as -8,00 m.

a. Shipping Section	: Structure	256m x 30m x 18,5m	Steel Construction
	Cranes	2x10 Tons	
b. Rolling Section	: Structure	432m x 30 m x 18,5m	Steel Construction
	Cranes	1x35/10 Tons + 1x10 Tons	
c. Billet Finishing	: Structure	280m x 30m x 18,5m	Steel Construction
	Cranes	2x10 Tons	

■ MELT SHOP:

The structure covers an area of approximately 10.200m² with 4 sections.

a. Melting Section	: Structure	120m x 23m x 33m	Steel Construction
	Cranes	19m High 2x40/15/5 Tons	
b. Casting Section	: Structure	120m x 23m x 33m	Steel Construction
	Cranes	2x100/40 Tons	
c. Striping Fine	: Structure	105m x 22m x 22,5m	Steel Construction
	Cranes	2x8 Tons	
d. Scale Pit Section	: Structure	105m x 22m x 22,5m	Steel Construction
	Cranes	2x16 Tons	

■ OTHER STRUCTURES:

Other structures of the quality products units ;

- a. Junkyard - Steel Construction, R/C foundations,
- b. Workshop - Steel Construction, R/C foundations,
- c. Pipe Routes - Steel Construction, R/C foundations.



ASİL ÇELİK CONTINUOUS CASTING FACILITY

Bursa, TURKEY

Client:
ASİL ÇELİK SANAYİ VE
TİCARET A.Ş.

ASİL ÇELİK is a world-renowned producer of quality steel and the largest company of its kind in Turkey accounting for 60 percent of Turkey's total quality steel production and exporting approximately 40 percent of its products.

The continuous caster will produce round blooms at a diameter of 300 to 600 millimeters with a production capacity of 600,000 tons per year.

PROKON has provided Owner's Engineering Services for the Continuous Casting Plant and other auxiliary buildings which are constructed next to the main existing facility.

The following services were provided by PROKON under the scope of this project;

- Detail Engineering Services including Architectural, Reinforced Concrete, Structural Steel, Electrical, Plumbing, HVAC, Piping & Civil Drawings of the Continuous Casting Plant.
- Preparation of the Tender Documents for selection of the Local Contractors.
- Assistance to the Client for selection of Supplier, besides the Main Process Equipment Supplier & Local Contractors.
- The Coordination of the Supervision services for the Construction & Start-Up Phase.



iron & ste



ERDEMİR STEEL PLANT MODERNIZATION PROJECT

Zonguldak, TURKEY

Client:
ERDEMİR EREĞLİ
IRON AND STEEL
WORKS Co.

Ereğli Iron and Steel Works Co. (ERDEMİR) is the largest flat steel manufacturer of Turkey, located in Karadeniz Ereğli. As being one of the biggest investments of Turkey, Capacity Increase and Modernization Project in Erdemir provided a significant capacity increase in flat steel production of Company from 1.500.000 tons/year to 3.300.000 tons/year.

Within the content of the project, Multi-Discipline Engineering Services and Site Technical Support was provided by PROKON.

The following structures and units are designed by PROKON:

- Steel Mill Capacity Improvement
- Continuous Casting Plant No. 3 & 4
- Vacuum Degassing Supporting Building & Equipment Foundations
- 2. Cold Mill Supporting Structure
- 2. Cold Mill Structure & Equipment Foundations
- Cold Roll Mill, Roll Storage & Dispatch Building Extension
- Hot Strip Mill Modernization
- Natural Gas Conversion Piping
- Reinforcement of Damaged Coke Stack
- ETL/TFSL Facilities
- Galvanizing Facilities
- Gas Holders for Blast Furnace & Converter Gases, Gas Conveying & Mixing System
- Sport Facility (5000 people capacity)
- Head Office & EBIM Building
- Tandem & Temper Mill Revamp





İSDEMİR BLAST FURNACE & OG-GAS STORAGE FACILITY

İskenderun, TURKEY

Client:
İSKENDERUN DEMİR
ÇELİK A.Ş.

EPC TURNKEY

PROKON provided the Multi-Discipline Detail Engineering Services of İSDEMİR Gas Storage Facility within the scope of project.

The project has been realized as an EPC Contract in turnkey basis for İSDEMİR İskenderun Iron and Steel Company in Turkey. The project consisting of Floating Piston Type two Gas Holders and Piping System, Excess Gas Flare Stack, Converter Gas Recovery Station, Boosting, Wet Type ESP and Mixing Stations. The Gas Holders were constructed to Store Blast Furnace and Converter Gases of İSDEMİR Steel Plant. The main technology sub-contractors were MB Engineering Services Ltd., Clayton Walker Gas Holder Division (England) and SMS Demag AG (Germany).



Main Sizes;

- BFG
 - Capacity : 50.000 m³
 - Diameter : 43 m
 - Height : 54 m
- OG HOLDER
 - Capacity : 60.000 m³
 - Diameter : 48,4 m
 - Height : 59 m





KROMAN STEEL NEW ROLLING MILL PROJECT

Kocaeli, TURKEY

Client:
KROMAN ÇELİK SAN. A.Ş.

The plant is located in Gebze, İzmit with a capacity of rolling 800.000 tons of reinforcing steel bars per year. PROKON completed the Design and Engineering Services of the plant in the disciplines of Steel Construction, Reinforced Concrete, Architectural, and Earthing. The first line was completed in 2004 and the second in 2007.

The following structures and units are designed by PROKON:

- Main Steel Building & Reinforced Concrete Foundations 120m x 550m x 30m
- Foundations of Reheating Furnace
- All the Equipment Foundations of the Rolling Mill
- Scale Pit
- Water Facilities
- 3 Electrical Buildings
- Administrative Buildings
- Various Steel Construction Structures

1750 A0 drawings were produced within the scope of engineering Services. The plant is in operation since 2006.



KROMAN STEEL – MODERNIZATION OF MELT SHOP

Kocaeli, TURKEY



Client:
KROMAN ÇELİK SAN. A.Ş.

PROKON completed Structural Steel and Reinforced Concrete Engineering Services within the scope of Modernization and Extension Project of 110.000 tons/year capacity melt shop of Kroman Çelik A.Ş. which is located in Gebze, İzmit. The existing melt shop and scrap yard buildings were analyzed for increase in Crane Capacity and Earthquake Resistance and Retrofitting Drawings were prepared as a result ($160\text{m} \times 145\text{m} = 23.200 \text{ m}^2$).

The following structures and units are designed by PROKON:

- Extension of Main Steel Construction Building & R/C foundations (Melt Shop & Scrap Yard) $64\text{m} \times 145\text{m} = 9280 \text{ m}^2$ ($h = 29\text{m}$)
- New Canopy Hood Steel Construction Drawings ($22,25\text{m} \times 37,0\text{m} \times 20\text{m}$)
- Ladle Furnace Foundations
- Electrical Arc Furnace Foundations
- Rail Foundations

900 A0 drawings were produced within the scope of engineering services.



iron & steel industry references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
842	ERDEMİR A.Ş.	ERDEMİR RESEARCH AND DEVELOPMENT FACILITY	ERDEMİR A.Ş.	EREĞLİ ZONGULDAK	TURKEY	The project covers multi discipline basic design and detail design services.
839	DİLER DEMİR ÇELİK	STEEL STRUCTURAL ANALYSIS	DİLER DEMİR ÇELİK	GEBZE	TURKEY	The project covers detail design engineering services in steel discipline.
834	ATAKAŞ ÇELİK SAN.VE TİC. A.Ş.	COLDMILL COMPLEX	ATAKAŞ ÇELİK SANAYİ ve TİCARET A.Ş.	ISKENDERUN	TURKEY	The project covers multi discipline detail design and technical support services
833	MMK METALURJİ	HDGL AIR KNIFE MODERNISATION	MMK METALURJİ	ISKENDERUN	TURKEY	The project cover detail design engineering service in mechanical installation discipline and technical support service.
802	ASİL ÇELİK	CONTINUOUS CASTING PLANT ENGINEERING SERVICES	ASİL ÇELİK	ORHANGAZI BURSA	TURKEY	The project covers multi discipline basic design and detail design and construction management services in construction period.
786	KARDEMİR	NEW DOGHOUSE DESIGN SERVICES	SMS SIEMAG	KARABUK	TURKEY	The project covers the basic design and detail design services in machine equipment and steel disciplines.
778	SMS SIEMAG	KARDEMİR BOF ACAD DRAWINGS	SMS SIEMAG	KARABUK	TURKEY	The project covers technical support during construction period.
775	KROMAN ÇELİK SAN. A.Ş.	SCRAP YARD ENGINEERING SERVICES	KROMAN ÇELİK SAN. A.Ş.	DILOVASI KOCAELİ	TURKEY	The project covers the basic design and detail design services in architecture, reinforced concrete and steel disciplines.
773	YESİLYURT DEMİR ÇEKME SAN. VE TİC. LTD. STİ.	CAPACITY INCREASE OF SERVICE AND CONTINUOUS CASTING HALLS AND REINFORCEMENT OF THE CONVEYOR SYSTEM	YESİLYURT DEMİR ÇEKME SAN. VE TİC. LTD. STİ.	SAMSUN	TURKEY	The project covers the basic design and detail design services in reinforced concrete and steel disciplines.
765	ATAKAS STEEL INDUSTRY AND TRADE INC.	ATAKAS PAYAS STORAGE FACILITIES PROJECT ENGINEERING SERVICES	ATAKAS STEEL INDUSTRY AND TRADE INC.	ISKENDERUN	TURKEY	The project covers multi discipline detail design services.
718	KROMAN ÇELİK SAN. A.Ş.	2. MELT SHOP ENGINEERING SERVICES	KROMAN ÇELİK SAN. A.Ş.	İZMİT	TURKEY	The project covers multi discipline detail design services.
716	MMK ATAKAS METALURJİ SAN. TİC. VE LİMAN İŞLET. A.Ş.	IRON AND STEEL PLANT ENGINEERING AND DESIGN SERVICES	MMK ATAKAS METALURJİ SAN. TİC. VE LİMAN İŞLET. A.Ş.	DILOVASI GEBZE İZMİT	TURKEY	The project covers multi discipline basic design and detail design services. The plant has a capacity of correcting and cutting 400.000 tons of rolled steel and a capacity of producing 750.000 tons of galvanized and painted steel annually.
715	ETİ GUMUS A.Ş.	MERRILL - CROWE 2400 m ³ /h BORUHANE	CH MAKİNE LTD. STİ.		TURKEY	The project covers architectural detail design services.
714	DETAL ALUMİNYUM VE POLAD ZAVADU	DETAL ALUMİNYUM IRON AND STEEL PLANT ENGINEERING AND DESIGN SERVICES	DETAL ALUMİNYUM AND POLAD ZAVADU	GENCE	AZERBAIJAN	The project covers multi discipline basic design and detail design services.
713	ALCOMET BULGARIA	STEEL PLANT GRINDEL ROOM FOUNDATIONS	FIKRET KUZUCU	BULGARIA	BULGARIA	The project covers detail design services in reinforced concrete discipline.
712	MMK ATAKAS METALURJİ SAN. TİC. VE LİMAN İŞLETMECİLİĞİ A.Ş.	IRON AND STEEL PLANT ENGINEERING AND DESIGN SERVICES	MMK ATAKAS METALURJİ SAN. TİC. VE LİMAN İŞLETMECİLİĞİ A.Ş.	DÖRTYOL İSKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services for 217.500 m ² steel and reinforced concrete structures, 4.700 m long underground galleries, 2.200 m long pipe bridges and roads, infrastructure lines. The plant is located in Hatay Dört Yol with an annual capacity of 2.500.000 tons of hot rolled steel, 900.000 tons of cold rolled steel, 800.000 tons of galvanized steel and 400.000 tons of painted steel. The plant is considered to be the largest single lot investment in iron and steel sector in the history of Turkey.
708	İSDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ENGINEERING SERVICES FOR İSDEMİR MODERNIZATION OF IRON ORE PREPARATION UNIT	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	ISKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services.
703	İSDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	HOT STRIP MILL MODERNIZATION AND TRANSFORMATION INVESTMENT DETAILING DESIGN SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	ISKENDERUN	TURKEY	The project covers the detail design services in architecture and steel disciplines.
693	KROMAN ÇELİK SAN. A.Ş.	ENLARGEMENT OF THE EXISTING STRIP MILL	KROMAN ÇELİK SAN. A.Ş.	DILOVASI GEBZE İZMİT	TURKEY	The project covers multi discipline detail design services.
692	YESİLYURT DEMİR ÇEKME SAN. VE TİC. LTD. STİ.	ENLARGEMENT OF THE MILL BUILDING CAPACITY	YESİLYURT DEMİR ÇEKME SAN. VE TİC. LTD. STİ.	SAMSUN	TURKEY	The project covers detail design services in architectural, reinforced concrete and steel disciplines.
685	SMS DEMAG	KARDEMİR GAS HOLDER ENGINEERING SERVICES	SMS DEMAG	KARABUK	TURKEY	The project covers multi discipline detail design services.
679	İSDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	İSDEMİR OG GAS HOLDER	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	ISKENDERUN	TURKEY	The project covers the engineering, production and procurement of the equipment, electrical-automation works and commissioning of one Gas Holder with floating piston having a capacity of 60.000 m ³ , 3 wet type electro filter, 3 booster fan, 3 gas collecting station, U type gas holders in various sizes and various valves and instruments.

iron & steel industry references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
677	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ISDEMİR NO:3 BLAST FURNACE MODERNIZATION	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	İSKENDERUN	TURKEY	The project covers basic design and detail design services in reinforced concrete, steel and mechanical equipment disciplines.
676	İZMİR DEMİR ÇELİK SAN. A.Ş.	ENLARGEMENT OF MILL BUILDING CAPACITY	İZMİR DEMİR ÇELİK SAN. A.Ş.	İZMİR	TURKEY	The project covers basic design and detail design services in architectural, reinforced concrete and steel disciplines.
671	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ISDEMİR NO:3 BLAST FURNACE MODERNIZATION	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	İSKENDERUN	TURKEY	The project covers basic design and detail design in steel discipline.
662		AMMAN STEEL MELT SHOP	CVS MAKİNA İNŞAAT SAN. TİC. LTD. ŞTİ.	AMMAN	JORDAN	The project covers basic design and detail design services in architectural, reinforced concrete and steel disciplines.
656	ERDEMİR IRON AND STEEL PLANT	AIR SEPARATION PLANT	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	KARADENİZ EREĞLİ	TURKEY	The project covers detail design services in steel discipline.
642	EGE ÇELİK END. SAN. TİC. A.Ş.	CONTINUOUS CASTING DESIGN AND ENGINEERING SERVICES	EGE ÇELİK END. SAN. TİC. A.Ş.	ALIAGA İZMİR	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
638	KROMAN ÇELİK SAN. A.Ş.	NEW STRIP MILL	KROMAN ÇELİK SAN. A.Ş.	CAYIROVASI İZMİR	TURKEY	PROKON has completed the design and engineering services for the plant in the disciplines of steel construction, reinforced concrete, architectural and grounding.
633	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ASU NO.06 ISDEMİR FIELD INSTALLATION ELECTROTECHNIC DRAWINGS	AIR LIQUIDE AGS GERMANY	İSKENDERUN	TURKEY	The project covers electrical detail design services.
630	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ISDEMİR; BENZOL TANKS, SULPHURIC ACID TANKS, FIRE WATER PROJECTS PRELIMINARY AND DETAIL DESIGN SERVICES	ISDEMİR IRON AND STEEL PLANT	İSKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services.
629	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ISDEMİR GAS HOLDER	PROKON MANUFACTURING AND ERECTION INC.	İSKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services.
627	ERDEMİR IRON AND STEEL PLANT	TANDEM COLD MILL NO.1 (TCM NO.1) AND TEMPER MILL NO.2 (TMP NO.2) REVAMPING PROJECT FOR ERDEMİR	MARUBENİ CORPORATION TOKYO	KARADENİZ EREĞLİ	TURKEY	The project covers multi discipline basic design and detail design services.
624	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	ISDEMİR AIR SEPARATION PLANT NO:6	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	İSKENDERUN	TURKEY	The project covers multi discipline detail design services.
611	MITSUBISHI HITACHI JAPON	ERDEMİR TANDEM & TEMPER MILL ENGINEERING SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	KARADENİZ EREĞLİ	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines.
605	EUROPEAN COMMISSION	REHABILITATION OF TURKISH IRON AND STEEL INDUSTRY	EUROPEAN COMMISSION	TURKEY	TURKEY	The project covers technical support during construction period.
603	DEMİSAS DOKUM EMAYE MAMULLERİ SANAYİ A.Ş.	THE EXTENSION OF UNIT 2	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	BİLECİK	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines and construction management and site supervision during construction period.
594	KROMAN ÇELİK SAN. A.Ş.	STEEL MILL CANOPY HOOD PROJECT DESIGN AND ENGINEERING SERVICES	KROMAN ÇELİK SAN. A.Ş.	GEBZE İSTANBUL	TURKEY	The project covers basic design and detail design services in architecture, reinforced concrete and steel disciplines.
589	ISDEMİR İSKENDERUN DEMİR VE ÇELİK FABRİKALARI A.Ş.	2.000.000 TONS/YEAR 2X6 STRAND CONTINUOUS BILLET CASTING PLANT DESIGN AND ENGINEERING SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	İSKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services for No.1 and No.2 Continuous Casting plants.
575	İZMİR IRON&STEEL IND. INC.	İZMİR IRON & STEEL INDUSTRY DUST DEDUCTION SYSTEM, REHEATING FURNACE	İZMİR IRON&STEEL IND. INC.	YENİ FOCA	TURKEY	The project covers detail design services in steel discipline and technical support during construction period.
574	KROMAN ÇELİK SAN. A.Ş.	TAVSANCIL WATERFRONT FACILITIES INFRASTRUCTURE AND BUILDINGS PROJECT	KROMAN ÇELİK SAN. A.Ş.	HEREKE	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
567	ASIL STEEL INDUSTRY AND TRADE INC.	MELT SHOP EXTENSION AND MODERNIZATION ENGINEERING AND DESIGN SERVICES	EKON ENDÜSTRİ İNŞAAT VE TİCARET A.Ş.	BURSA	TURKEY	The Project covers basic design and detail design in architectural and reinforced concrete discipline.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
562	IZMIR IRON&STEEL IND. INC.	MODIFICATION AND ADDITIONAL INVESTMENT PROJECT	IZMIR IRON&STEEL IND. INC.	IZMIR	TURKEY	The project covers multi discipline detail design services.
548	KROMAN CELIK SAN. A.S.	STEEL PLANT CONTINUOUS CASTING PLANT	KROMAN CELIK SAN. A.S.	OSMANGAZI GEBZE KOCAELI	TURKEY	The Project covers multi discipline basic design services. The existing melt shop and scrap yard buildings were analyzed for increase in crane capacity and earthquake resistance and retrofitting drawings were prepared as a result.
530	ASIL STEEL INDUSTRY AND TRADE INC.	EQUIPMENT FOUNDATIONS MODIFICATIONS	ASIL STEEL INDUSTRY AND TRADE INC.	BURSA	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
528	ERDEMIR IRON AND STEEL PLANT	ERDEMIR BLAST FURNACE EARTHQUAKE REHABILITATION	ERDEMIR IRON AND STEEL PLANT	KARADENIZ EREGLI	TURKEY	The project covers detail design services in reinforced concrete discipline.
526	DEMISAS DOKUM EMAYE MAMULLERI SANAYI A.S.	NEW CUPOLA PLANT	DEMISAS DOKUM EMAYE MAMULLERI SANAYI A.S.	BILECIK	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines.
522	DILER IRON & STEEL IND. AND TRADE INC.	DILER COOLING WATER PLANT	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI	TURKEY	The project covers multi discipline basic design and detail design services.
518	DILER IRON & STEEL IND. AND TRADE INC.	NEW OXYGEN PLANT	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI IZMIT	TURKEY	The project covers multi discipline detail design services.
515	DILER IRON & STEEL IND. AND TRADE INC.	CONTINUOUS CASTING PLANT	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI IZMIT	TURKEY	The project covers multi discipline detail design services.
499	ERDEMIR IRON AND STEEL PLANT	CONTINUOUS GALVANIZED LINE BUILDING CONSTRUCTION ENGINEERING SERVICES	GERKONSAN	KARADENIZ EREGLI	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines.
497	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI 1.000.000 TON/YEAR CAPACITY NEW STEEL PRODUCTION PLANT & EQUIPMENT FOUNDATION	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI IZMIT	TURKEY	The project covers basic design and detail design services in architecture, reinforced concrete and steel disciplines and construction management and site supervision services during construction period.
495	KARDEMIR KARABUK IRON AND STEEL	MODERNIZATION OF CONTINUOUS ROLLER MILL	KARDEMIR KARABUK IRON AND STEEL	KARABUK	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines.
486	KARDEMIR KARABUK IRON AND STEEL	IRON SLACK RECYCLING FACILITY	PROKON MANUFACTURING AND ERECTION INC.	KARABUK	TURKEY	The project covers basic design and detail design services in steel and mechanical equipment disciplines.
484	CEMTAS STEEL AND MACHINERY INC.	DEDUSTING OF ARC FURNACE AND MELTING POT FACILITIES	PROKON MANUFACTURING AND ERECTION INC.	ORGANIZED INDUSTRY ZONE BURSA	TURKEY	The project covers multi discipline detail design services.
483	ASIL STEEL INDUSTRY AND TRADE INC.	MODERNIZATION OF ELECTRIC ARC FURNACE AND MELTING POT	ASIL STEEL INDUSTRY AND TRADE INC.	ORHANGAZI BURSA	TURKEY	The project covers multi discipline detail design services.
481	KARDEMIR KARABUK IRON AND STEEL	POT HEATING AND DRYING STATIONS	PROKON MANUFACTURING AND ERECTION INC.	KARABUK	TURKEY	The project covers multi discipline basic design and detail design services.
475	ERDEMIR IRON AND STEEL PLANT	ELECTROLYTIC TINNING & TIN FREE STEEL FACILITIES	ERDEMIR IRON AND STEEL PLANT	KARADENIZ EREGLI	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines and and site supervision services.
467	DILER IRON & STEEL IND. AND TRADE INC.	SCRAP YARD AND PRODUCT HALL	DILER IRON & STEEL IND. AND TRADE INC.	DILOVASI ISTANBUL	TURKEY	The project covers basic design and detail design services in architectural, reinforced concrete and steel disciplines.
464	ASIL STEEL INDUSTRY AND TRADE INC.	VACUUM DEGASSING AREA NEW COVER SYSTEM	PROKON MANUFACTURING AND ERECTION INC.	ORHANGAZI BURSA	TURKEY	The project covers basic design and detail design services in steel and mechanical equipment disciplines and construction management and site supervision services during construction period.
458	ASIL STEEL INDUSTRY AND TRADE INC.	ROLLER MILL UNIT 41, 69 INTERMEDIARY EXTENSION PROJECT	ASIL STEEL INDUSTRY AND TRADE INC.	BURSA	TURKEY	The project covers basic and detail design services in architectural and steel disciplines.





Food & Beverage



BOĞAZLIYAN SUGAR FACTORY

Yozgat, TURKEY

EPC TURNKEY

Client:
KAYSERİ ŞEKER
FABRİKASI A.Ş.

As being the biggest investment project of Kayseri Sugar Factories Co., the largest and most modern sugar factory of Turkey, 10.000 tons/day Sugar Beet Slicing Capacity Boğazlıyan Sugar Factory was realized as an Engineering, Procurement and Construction (EPC) Contract on turnkey basis covering all Civil, Mechanical, Electrical and Automation Designs, Commissioning and Start-Up of the sugar factory.

The project was completed by OEP (Oyak İnşaat-EKON-PROKON) and French Fives-Cail, Maguin Consortium. The complete design works were provided by PROKON. When the project finished, it is designed to operate 10.000 tons of sugar beet per day, which may also reach 12.000 tons per day. Also a storage area with 224.000 ton sugar beet capacity was built. The beet washer unit's hourly capacity is 420 tons. Also the facility has the capacity to store 60.000 tons granulated sugar and 20.000 tons packaged sugar.

The following structures and units are designed by PROKON:

- Beet Acceptance & Analysis Laboratory
- Weigh Bridges
- Beet Storage Areas & Transporting Equipment
- Beet Washing Unit
- Beet Chopping Unit
- Boiling & Diffusion Unit 10.000 Tons/Day
- Pulp Presses
- Syrup Heaters
- Syrup Refining Unit
- Filter Presses
- Evaporation
- Ion Exchange Unit
- Crystallization
- Sugar Drying Unit
- Sugar Conveyors
- Sugar Storage & Packaging Units
- Boiler Water Processing Unit
- Vacuum Lines & Cooling Tower
- Steam Boilers (2 x75 Tons / Hour, 1 x 20 Tons / Hour, 1 x 10 Tons / Hour)
- 2 Steam Turbines with 8,200 KWE
- Power Distribution Systems
- Automation System
- Laboratories
- Fuel Oil Tank
- Molasses Tanks
- Wastewater Treatment Plant (350 m³/h capacity)
- Making Fields Road & Park (56.000 m²)
- Sewer & Storm Water System Making (11,800 m)





KONYA SUGAR PLANT ÇUMRA FACILITIES

Konya, TURKEY

Client: KONYA SEKER FABRIKASI A.S.

Çumra Sugar Plant which was built on a 5th class agricultural land of 2.600.000 square meters in Çumra district had a sugar beet processing capacity of 17.000 tons per day.

The Plant with a daily nominal sugar beet processing capacity of 17.000 tons per day, it is the sugar mill having the largest capacity in Turkey;

- It is the only sugar mill in the world which can obtain its raw material within 20 km radius of it.
- It is the only plant which is capable of taking sugar beets into operation with dry system and producing 2.500 tons of sugar daily.
- It is the only sugar mill with the most advanced fluidized bed boiler, which reduces energy costs to minimum.
- It is the first plant in Turkey to produce liquid sugar from sugar beets.

PROKON has also received a Letter of Gratitude from the Client to enable the completion of the Plant in a record duration.

PROKON has provided Architectural, Reinforced Concrete, Structural Steel, Mechanical (Sanitary Installation, Heating, Ventilation, Cooling), Electrical (Illumination, Earthing, Lightning Protection, Fire Alarm, Low Current) Engineering Services.

The following structures were within the scope of the project:

- | | |
|--|---------------------------------|
| ■ Main Production Building (12663 m ²) | ■ Equipment & Tank Foundations |
| ■ Electrical Control Building (2966 m ²) | ■ Bruckner Pool (60 m diameter) |
| ■ Office Buildings (2358 m ²) | ■ Cooling Tower Foundation |
| ■ Cafeteria & Locker Rooms (1585 m ²) | ■ Rain Drainage System |
| ■ Mechanical Workshop (732 m ²) | ■ Sewer System |
| ■ Lime Station (644 m ²) | ■ Roads |
| ■ Main Entrance & Weighbridge (134 m ²) | ■ Clay Pits |
| ■ Vehicle Standby Area Control Building (30 m ²) | ■ Pulp Stock Area |
| ■ Central Pump, Panel Transformer Building (400 m ²) | |
| ■ Turbine Panel, Transformer, Generator Building (200 m ²) | |
| ■ Pulp Press Panel, Transformer Building (155 m ²) | |
| ■ Clay Pit Pump, Transformer Building (103 m ²) | |
| ■ Beet Cleaning Panel Transformer Building (95 m ²) | |
| ■ Beet Loading Panel Transformer Building (85 m ²) | |
| ■ Beet Cleaning (900 m ²) | |
| ■ Liquid Sugar Building (2300 m ²) | |
| ■ Liquid Sugar Truck Loading Building (365 m ²) | |
| ■ Liquid Sugar Transport Building (210 m ²) | |
| ■ Liquid Sugar Panel Transformer Building (83 m ²) | |
| ■ Pipe Bridges (940 m) | |





AKMINA BOTTLING AND DISTRIBUTION FACILITIES

Bursa, TURKEY



Client: DANONESA

Akmina Natural Water Bottling and Distribution Facility, an investment of DANONE and Sabancı Consortium, is located on a 10.000 m² area. PROKON provided Engineering and Design Services, Construction Management and Site Supervision Services for this project. In the facility, natural mineral spring water is bottled by automatic machinery and packaged for distribution in highly hygienic conditions.



PROKON provided the following services under the scope of this project:

Engineering & Design Services

- Functional Planning
- Architectural
- Steel & Reinforced Concrete Bearing Systems
- Mechanical Works (HVAC, Fire System, Plumbing, Piping etc.)
- Electrical Works (Power, Lighting, Earthing, Telephone, Data Lines, Fire Alarm System Automation etc.)

Tendering File Preparation, Tender Evaluation & Contractor Appointment

- Contract, Scope, Work Plan, Technical Specifications, Cost Estimate & Quantity Survey

Site Supervision Services

- Plan & Activity Tracing & Control
- Cost Control
- Quality Control
- Design Control & Interior Furnishing Plan Preparing
- Coordination
- Reporting





COCA-COLA PRODUCTION AND BOTTLING FACILITIES

Ankara, Mersin, Bursa, İzmir, TURKEY

Client: MAKSAN



MAKSAN [the representative of Coca-Cola in Turkey] has made investments for the bottling facilities that stated below,

■ Ankara Esenboğa Bottling Facility,	11000 m ²
■ Mersin Bottling Facility,	25000 m ²
■ Bursa Bottling Facility,	5000 m ²
■ İzmir Region Sales Office,	12000 m ²
■ Ankara Region Sales Office,	15000 m ²

Coca Cola-MAKSAN assigned PROKON as the only source Consultant firm from year 1996 until 2000 for their investment project in Turkey.



PROKON provided the following services under the scope of this project:

Engineering & Design Services

- Functional Planning
- Architectural
- Steel & Reinforce Concrete Bearing Systems
- Mechanical Works (HVAC, Fire System, Plumbing, Piping etc.)
- Electrical Works (Power, Lighting, Grounding, Telephone, Data Lines, Fire Alarm System, Automation etc.)

Tendering File Preparation, Tender Evaluation & Contractor Appointment

- Contract, Scope, Work Plan, Technical Specifications, Cost Estimate & Quantity Survey

Site Supervision Services

- Plan & Activity Tracing & Control
- Cost Control
- Quality Control
- Design Control & Interior Furnishing Plan Preparing
- Coordination
- Reporting



food & beverage references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
837	AB HOLDING	KARAPINAR BULGUR PRODUCTION PLANT	AB HOLDING	KONYA	TURKEY	The project covers multi discipline basic design and detail design services.
828	MEY ICKI	ALASEHIR RAKI PRODUCTION FACILITY	MEY ICKI	MANISA	TURKEY	The project covers multi discipline basic design and detail design services and technical support.
745	KAYSERİ SEKER FABRIKASI A.S.	EQUIPMENT FOUNDATION DESING SERVICES	KAYSERİ SEKER FABRIKASI A.S.	KAYSERİ	TURKEY	The project covers detail design services in reinforced concrete discipline.
744	KAYSERİ SEKER FABRIKASI A.S.	BAROMETRIC CONDENSE STRUCTURE STATICAL ANALYSIS	KAYSERİ SEKER FABRIKASI A.S.	BOGAZLIYAN YOZGAT	TURKEY	The project covers detail design services in steel discipline.
743	KAYSERİ SEKER FABRIKASI A.S.	SUGAR FACTORY BEET BELTS CAPACITY INCREASE PROJECT	KAYSERİ SEKER FABRIKASI A.S.	BOGAZLIYAN KAYSERİ	TURKEY	The project covers basic design and detail design services in steel and mechanical equipment disciplines.
723	WHITE NILE SUGAR COMPANY LTD.	SUDAN SUGAR FACTORY ENGINEERING SERVICES	EKON A.S.	SUDAN	SUDAN	The project covers multi discipline basic design and detail design services.
652	KAYSERİ SEKER FABRIKASI A.S.	BOGAZLIYAN SUGAR FACTORY TURNKEY DESIGN SERVICES AND CONSTRUCTION WORKS	KAYSERİ SEKER FABRIKASI A.S.	KAYSERİ	TURKEY	OEP (Oyak inşaat-Ekon-Prokon) and French Fives-Cail, Maguin Consortium have undertaken the design services and construction works of Boğazlıyan Sugar Factory as turnkey basis. Boğazlıyan Sugar and Manufactures Integrated Facility is constructed on 700 decares of area. It is designed to operate 10.000 tons of sugar beet per day, which may also reach 12.000 tons per day. Also a storage area with 224.000 ton sugar beet capacity was built. The beet washer unit's hourly capacity was 420 tons. Also the facility has the capacity to store 60.000 tons granulated sugar and 20.000 tons packaged sugar.
602	KONYA SEKER FABRIKASI A.S.	KONYA SUGAR PLANT CUMRA FACILITIES DESIGN SERVICES	KONYA SEKER FABRIKASI A.S.	KONYA	TURKEY	The project covers multi discipline basic and detail design services for several buildings in the factory site within 2.600.000 m2 area.
580	YENIGUN INSAAT A.S.	SYRIAN GRAIN STORAGES PRELIMINARY DESIGN SERVICES	YENIGUN INSAAT A.S.	SYRIA	TURKEY	The project covers multi discipline basic design and detail design services.
533	GURBUZ DİSTİC. GIDA SAN. A.S.	GURBUZ HAZELNUT POCESSING FACILITIES, NEW PRODUCTION DIVISIONS AND PRODUCT STORAGE DESIGN AND ENGINEERING SERVICES	TEMON MAKİNA TESİSAT MONTAJ SAN. VE TİCARET A.S.	DUZCE BOLU	TURKEY	The project covers detail design services in reinforced concrete and steel disciplines.
531	MAKSAN INC.	BURSA COCA COLA	MAKSAN INC.	BURSA		The project covers multi discipline basic and detail design services and site supervision services during construction period.
523	ANSAN A.S.	COCA - COLA ANKARA PRODUCTION AND BOTTLING FACILITIES MODIFICATION	ANSAN A.S.	ANKARA	TURKEY	The project covers multi discipline detail design services.
514	COCA COLA BEVERAGE PRODUCTION INC.	COCA COLA NEW STORAGE AND SERVICE BUILDINGS	COCA COLA BEVERAGE PRODUCTION INC.	ETİMESGUT ANKARA	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services for new service building, new storage, auxiliary buildings, water supply, lpg tank area.
512	MAKSAN INC.	COCA COLA MANISA FACILITIES	COCA-COLA (MAKSAN)	MANISA	TURKEY	The project covers multi discipline basic design and detail design services.
511	MAKSAN INC.	İSİKKENT COCA-COLA FACILITIES SALES CENTER PROJECT	COCA-COLA (İMBAT)	İSİKKENT İZMİR	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
504	SPIERER TOBACCO EXPORT IND. INC.	TOBACCO STORE AND ADMINISTRATION BUILDING MODIFICATION	SPIERER TOBACCO EXPORT IND. INC.	ATATURK ORGANIZED INDUSTRIAL ZONE CİGLİ İZMİR	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services for tobacco storage and administration building having 10.000 m² closed area.
490	DANONE SABANCI INC.	AKMINA BOTTLING AND DISTRIBUTION FACILITY PROJECT	DANONESA	AKKAYA BOLU	TURKEY	Akmina natural water bottling and distribution facility operates in an area of 10.000 m². Services provided are described below: Engineering and Design Services • Functional Planning • Architectural • Steel and Reinforced Concrete Bearing Systems • Mechanical Works (HVAC, fire system, plumbing, piping etc.) • Electrical Works (Power, lighting, grounding, telephone, data lines, fire alarm system automation etc.) Tendering File Preparation, Tender Evaluation and Contractor Appointment Site Supervision Services
478	MAKSAN INC.	EXTENSION OF COCA-COLA PRODUCTION AND BOTTLING FACILITY	MAKSAN INC.	BURSA - ESKİSEHIR YOLU 20.KM. BURSA	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services for 1800 m² prefabricated storage building, steel compressor building, steel transformer building.
476	ANSAN A.S.	EXTENSION OF COCA-COLA PRODUCTION AND BOTTLING FACILITY	ANSAN A.S.	ESENOĞA YOLU 18.KM. ANKARA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services for 1140 m² steel workshop and auxiliary building.
472	MAKSAN INC.	CORLU COCA-COLA FACILITY HUSKY BUILDING	MAKSAN INC.	CORLU TEKİRDAG		The project covers multi discipline basic design and detail design services.
468	MAKSAN INC.	TURKMENISTAN ASKABAT COCA-COLA FACTORY	MAKSAN INC.	ASKABAT	TURKMENISTAN	The project covers basic design services.
461	IDİL CONSTRUCTION AND TRADE INC.	NEVINNOMISK SUGAR FACTORY	IDİL CONSTRUCTION AND TRADE INC.	STAVROPOL STATE OF NEVINNOMISK	RUSSIA	The project covers multi discipline basic design and detail design services for the sugar factory having 900 ton/day raw sugar capacity.
433	ANSAN A.S.	EXTENSION OF COCA-COLA PRODUCTION AND BOTTLING FACILITY	ANSAN A.S.	ESENOĞA YOLU 18.KM. ANKARA	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.





Miscellaneous Industrial Plants



DELPHI AUTOMOTIVE PRODUCTION FACILITY PROJECT AND PRODUCTION FACILITY EXTENSION PROJECT

Izmir, TURKEY

Client: DELPHI AUTOMOTIVE

Delphi is a global supplier of electronics and technologies for automotive, commercial vehicle and other market segments. The company operates major technical centers, manufacturing sites and customer support facilities in 30 countries, one of which is in Izmir, Turkey.

In the scope of Delphi Automotive New Production Facility Project, the facility having a 14.983 m² total area was built. PROKON participated in this project on both Design Phase and Construction Phase.



The following services were provided during Design Phase:

- Structural Design
- Infrastructural Design
- Electrical Design
- Architectural Design
- Mechanical Design
- Automation Design
- Fire Systems Design

Also, the following services were provided during Construction Phase:

- Supervision Services
- Cost Control
- Construction Management
- Quality Control
- Work Schedule Management
- Health & Security Control

The project began in June 2001 and finished in October 2002.

In addition to New Production Facility, an Extension Project is planned in August 2011. This extension project has a total area of 11.000 m² and above mentioned services in Design Phase and Construction Phase are provided by PROKON.





İPEK KAĞIT NEW CONVERTING PLANT

Manisa, TURKEY

Client: İPEK KAĞIT - GEORGIA PASIFIC

İpek Kağıt, subsidiary of Eczacıbaşı Group, is the leader in the tissue paper sector with Turkey's foremost tissue paper brands.

The objective of the project was to build a New Converting Facility in order to start the production of a new converting line. PROKON provided Engineering and Design Services, Construction Management and Site Supervision Services under the scope of this project.

This converting facility was a first step of a global 4 step plan, at the end of which, the site would be capable of producing and converting 180.000 Tons of paper within 225.000 m² closed area. Hence the design of this initial step must take into account all the requirements for the future extensions, i.e. none of the achievements during this first step will ever have to be re-considered.

The Project covers;

- Phase 1: 11.200 m² closed area
- Phase 2: 17.911 m² closed area
- Phase 3: 3.000 m² closed area

The following services were provided by PROKON

- Engineering & Design Services
- Preparation of Technical Files
- Site Supervision Services



PHILSA, PHILIP MORRIS – SABANCI CIGARETTE FACTORY, EXTENSION PROJECT

İzmir, TURKEY

Client: PHILSA- PHILIP MORRIS & SABANCI

Philsa, a 75/25 Joint Venture between Philip Morris and Sabanci Holding, was established in 1991. The factory manufactures many well-known tobacco brands for consumption in Turkey and other markets.

The scope of the work was to increase the production capacity and to benefit from the facility interior management areas in a functional way, so that a series of investments stated and below were performed,



- North Extension Project, 4300 m²
- Full Extension Project, 2050 m²
- CIBL 14 Project, 6500 m²
- New Warehouse Project, 35000 m²
- Sewage Treatment Plant 350 m³/day



The following services were provided by PROKON;

- Engineering & Design Services
- Tendering File Preparation, Tender Evaluation & Contractor Appointment
- Construction Management Services

The Project started in July 1996 and completed in February 2000.





BRISA TYRE FACTORY EXTENSION PROJECT

İzmit, TURKEY

Client: BRISA

BRISA, which was founded in 1974, with 354.000 m² closed area and production of 8.000.000 tyres/year, has become the 6th biggest tyre factory under single roof in Europe. The Design and Engineering Services were provided by PROKON during extension projects since 1996.

Consultancy Services of Preparation of Tender Documents, Engineering and Site Supervision were provided in "Extension 2" in 1996, "Earthquake Damage Maintenance" in 1999-2000, "Extension 3 Project and "Kumla River Bridge Project" in 2004 and also Consultancy Services of Multi Discipline Design Engineering Services and Preparation of Tender Documents were provided in "Bekirpaşa End Product Warehouse" and "AGR and Operation Warehouse under the scope of Extension 4" in 2006.

End Product Warehouse was built in western part of BRISA having a closed area of 52.000 m² and contains a separate structure with 850 m² Cafeteria, Locker Rooms, Wet Areas and Offices. Under the scope of Extension 4 Project, Consultancy Services of Design of 6400 m² AGR Building and 870 m² Operation Warehouse and Tender Documents Preparation were completed. The structures were designed as Prefabricated Reinforced Concrete Columns and Steel Roof Structure.





MUBEA NEW FACILITY BUILDING

Manisa, TURKEY

Client: MUBEA

MUBEA is a global partner for the Automotive Industry and a Lightweight Design Specialist that provides heavy duty spring components and related products, since 1916. The company has operations in 14 countries.

The scope of work comprises the Design Services of New Facility-Phase 1 with 8.585 m² enclosed area to be built in Manisa;

The buildings designed are as follows;

- Production Building Phase 1 (approximately 6750 m²)
- Canopy Phase 1 (approximately 750 m²)
- Office & Social Building Phase 1 2x495 m² (approximately 990m²)
- Overhang Axis A/V1-2 (approximately 95m²)

PROKON provided the following services under the scope of this project;

- Preparation of Preliminary Design,
- Preparation of Architectural Design,
- Preparation of RC Construction Drawings,
- Preparation of Structural Steel Drawings,
- Preparation of HVAC Drawings,
- Preparation of Plumbing Drawings,
- Preparation of Fire System Drawings,
- Preparation of Electrical Drawings,
- Preparation of Automation Drawings,
- Preparation of Infrastructural Drawings,
- Establishment of the Technical Files for the Permits.
- Preparation & Approval of Energy Permit Drawings to TEDAŞ (Turkish Electricity Distribution Co.)

PROKON is also responsible for preparing the technical documents, drawings etc. and to assist client for the approval of all projects to the Engineering Associations.



miscellaneous industrial plants references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
832	PHILSA PHILIP MORRIS SABANCI	TF2 BUILDING HVAC SYSTEM ROOM	PHILSA PHILIP MORRIS SABANCI	IZMIR	TURKEY	The project covers construction management, site supervision and technical support services during the construction period.
827	TURK HENKEL KIM. SAN. ve TIC. A.S.	SULFONATION BUILDING ENGINEERING PROCUREMENT AND CONSTRUCTION WORKS (TURNKEY)	TURK HENKEL KIM. SAN. ve TIC. A.S.	HASANOGLAN - ANKARA	TURKEY	The project covers multi discipline detail design, construction management, site supervision and technical support services during the construction period.
825	BRISA BRIDGESTONE SABANCI	ZG - ZH TBR CURING LINE CONSTRUCTION ENGINEERING SERVICES AND PRESS LINE ADDITIONAL WORKS	BRISA BRIDGESTONE SABANCI	IZMIT - KOCAELI	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
824	SECRETARIAT OF THE NATIONAL INTELLIGENCE ORGANISATION (MIT)	HATAY FACILITY BUILDINGS	SECRETARIAT OF THE NATIONAL INTELLIGENCE ORGANISATION (MIT)	HATAY	TURKEY	The project covers construction management, site supervision and technical support services during the construction period.
821	IPEK KAGIT	IPEK KAGIT MANISA FACILITY KM4 PROJECT	IPEK KAGIT	MANISA	TURKEY	Multi discipline detail desing service and technical support service are provided for the project.
820	HEAS HAVAALANI ISLETME VE HAVACILIK END. A.S.	MAIN STORAGE LANDSCAPING AND ANNEXES CONSTRUCTION CONSULTANCY	HEAS	ISTANBUL	TURKEY	The project covers construction management, site supervision and technical support services during the construction period.
819	ISKENDERUN DIRECTORATE OF ORGANIZED INDUSTRIAL ZONES	ISKENDERUN ORGANIZED INDUSTRY ZONE - WATER TREATMENT PLANT	ISKENDERUN DIRECTORATE OF ORGANIZED INDUSTRIAL ZONES	ISKENDERUN	TURKEY	Multi discipline detail desing service and technical support service are provided for the project.
808	IPEK KAGIT	MANISA FACILITY CONVERTING EXTENSION BUILDING	IPEK KAGIT	MANISA	TURKEY	The project covers multi disipline basic design and detail design services.
806	STRABAG AG	WASTE WATER TREATMENT PLANT DESIGN FOR DIGESTERS AND PIPE GALLERY	STRABAG AG	CEYHAN - ADANA	TURKEY	The project covers detail design services in reinforced concrete discipline.
803	BRISA BRIDGESTONE SABANCI	ACADEMY BUILDING ADDITIONAL PROJECT WORKS	BRISA BRIDGESTONE SABANCI	IZMIT	TURKEY	The project covers multi disipline basic design and detail design services.
798	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	PRIME MINISTRY SERVICE BUILDING	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	ANKARA	TURKEY	Site supervision and technical support services are provided for the project.
789	PHILSA PHILIP MORRIS SABANCI	NEW NTM LOGISTIC BUILDING	PHILSA PHILIP MORRIS SABANCI	IZMIR	TURKEY	Site supervision service is provided for the Philsa Project.
784	BRISA BRIDGESTONE SABANCI	BRISA ACADEMY BUILDING & NEW ZG - ZH LINE	BRISA BRIDGESTONE SABANCI	IZMIT	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
783	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	1760 FLATS, 300 BEDS CAPACITY HOSPITAL AND SOCIAL FACILITIES IN ANKARA	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	ANKARA	TURKEY	The project covers construction management, site supervision and technical support services during the construction period.
780	IPEK KAGIT	MANISA FACILITY - NEW WAREHOUSE AND OFFICE BUILDING PROJECT	IPEK KAGIT	MANISA	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
779	PHILSA PHILIP MORRIS SABANCI	NEW NTM LOGISTIC BUILDING	PHILSA PHILIP MORRIS SABANCI	IZMIR	TURKEY	The project covers multi discipline detail design services.
771	PROKON EKON GROUP	PROKON - EKON GROUP NEW HEADQUARTER BUILDING ENGINEERING SERVICES	PROKON EKON GROUP	ANKARA	TURKEY	The project covers multi discipline basic design, detail design services, construction supervision and technical support during construction period.
769	ARTCON MUH.	MUBEA PRODUCTION FACILITY ENGINEERING SERVICES	ARTCON MUH.	MANISA	TURKEY	The project covers multi discipline basic design and detail design services. The buildings designed in The New Facility - Phase 1 (with 8585 m ² enclosed area) are as follows; - Production Building Phase 1 (6750 m ²), - Canopy Phase 1 (750 m ²), - Office & Social Building Phase 1 (990 m ²), - Overhang axis A/1-2 (95 m ²)
766	PARSAN A.S.	NEW PLANT SITE WORK FEASIBILITY REPORT	PARSAN A.S.	DIOVASI	TURKEY	The project covers technical support during construction period.
762	DELPHI OTOMOTIV SIS. SAN. ve TIC. A.S.	DELPHI AUTOMOTIVE SYSTEMS THE EXTENSION OF NEW PRODUCTION FACILITIES	DELPHI OTOMOTIV SIS. SAN. ve TIC. A.S.	AGEAN FREE ZONE IZMIR	TURKEY	The project covers multi discipline (structural, architectural, infrastructural, mechanical, electrical, automation, fire systems) basic design, detail design services, construction supervision and technical support during construction period. The new facility extension project is designed having a total area of 11000 m ² .
758	IPEK KAGIT	DESIGN OF KARAMURSEL NEW WAREHOUSE AND OFFICE BUILDINGS	IPEK KAGIT	IZMIT	TURKEY	The project covers multi discipline basic and detail design services and technical support during construction period.
754	BRISA LASTIK SANAYI VE TICARET A.S.	THE EXTENSION 4 PROJECT MIXER BUILDING, PRESS FOUNDATION ENGINEERING SERVICES	BRISA LASTIK SANAYI VE TICARET A.S.	IZMIT	TURKEY	The Extension 4 project covers the consultancy services for multi discipline detail design of mixer building and press foundation and technical support during construction.
752	ASIL STEEL INDUSTRY AND TRADE INC.	GEBZE TAYSAD OSB STEEL SERVING CENTER ENGINEERING SERVICES	ASIL STEEL INDUSTRY AND TRADE INC.	GEBZE ISTANBUL	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
738	ROKETSAN ROKET SANAYII VE TICARET A.S.	ALTAY PROJECT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION	ROKETSAN ROKET SANAYII VE TICARET A.S.	ELMADAG	TURKEY	The project covers multi discipline basic and detail design services, construction management and site supervision services during construction period.
734	PHILSA PHILIP MORRIS SABANCI SIGARA VE TUTUNCULUK SAN.VE TIC.A.S. IZMIR	FTD - FX10 PROJECT DESIGN AND CONSTRUCTION SUPERVISION SERVICES	PHILSA PHILIP MORRIS SABANCI SIGARA VE TUTUNCULUK SAN.VE TIC.A.S. IZMIR	TORBALI IZMIR	TURKEY	The project covers multi discipline detail design services, construction management and site supervision services during construction period.
733	ROKETSAN ROKET SANAYII VE TICARET A.S.	MILITARY FACILITIES ENGINEERING AND CONSULTANCY SERVICES	ROKETSAN ROKET SANAYII VE TICARET A.S.	YAHSIHAN KIRIKKALE	TURKEY	The project covers multi discipline basic and detail design services, construction management and site supervision services during construction period.
728	ROKETSAN ROKET SANAYII VE TICARET A.S.	PROCESS BUILDING CENTER ENGINEERING AND CONSULTANCY SERVICES	ROKETSAN ROKET SANAYII VE TICARET A.S.	LALAHAN ANKARA	TURKEY	The project covers multi discipline basic and detail design services, construction management and site supervision services during construction period.
727	BRISA LASTIK SANAYI VE TICARET A.S.	MIXER 9 BUILDING ENGINEERING SERVICES	BRISA LASTIK SANAYI VE TICARET A.S.	IZMIT	TURKEY	The project covers multi discipline detail design services and technical support.

miscellaneous industrial plants references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
724	IPEK KAGIT	CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION OF NEW CONVERTING PLANT	IPEK KAGIT	MANISA	TURKEY	The project covers multi discipline basic and detail design and construction management during construction phase. A 4 step plan for a 225.000 m ² facility was made and this first step covers; - Steel Structure Factory Building (9300 m ² closed area), - Auxiliary Facilities (400 m ² closed area), - Administration Building (1500 m ² closed area), - Ground Improvement, - Mechanical, Electrical, Infrastructural and Fine Works
709	ETI GUMUS A.S.	PROCESS PLANT FOUNDATION	CHCONSULTANTS	KUTAHYA	TURKEY	The project covers the basic design and detail design services in reinforced concrete discipline.
707	BAYMINA ENERJİ A.S.	ELECTRIC BUILDING ANNEX ADDITIONAL STOREY	BAYMINA ENERJİ A.S.	TEMLİ ANKARA	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
705	BRISA LASTİK SANAYİ VE TİCARET A.S.	THE EXTENSION 4 AGR ENGINEERING SERVICES	BRISA LASTİK SANAYİ VE TİCARET A.S.	İZMİR	TURKEY	Under the scope of Extension 4 project, Consultancy services for design of 6400 m ² AGR Building and 870 m ² Operation Warehouse and preparation of tender documents were completed. The structures were designed as prefabricated reinforced concrete columns and steel roof. Also technical support is given during construction period.
696	EKONUT A.S.	CORLU PARK 588 HOUSING AND SHOPPING CENTER ENGINEERING AND DESIGN SERVICES	EKONUT A.S.	CORLU TEKİRDAĞ	TURKEY	The project covers multi discipline detail design services.
695	BRISA LASTİK SANAYİ VE TİCARET A.S.	AGR AND OLD EXPERIMENTAL CENTER BUILDINGS	BRISA LASTİK SANAYİ VE TİCARET A.S.	İZMİR KOCAELİ	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
688	PROKON EKON GROUP	PROKON EKON GROUP MACHINERY AND STEEL MANUFACTURING PLANT PAINTING WORKSHOP ENGINEERING SERVICES	PROKON EKON GROUP	SARAYKÖY ANKARA	TURKEY	The project covers multi discipline basic design and detail design services.
687	BRISA LASTİK SANAYİ VE TİCARET A.S.	NEW WARE HOUSE PROJECT	BRISA LASTİK SANAYİ VE TİCARET A.S.	İZMİR	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period.
681	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TF-4, NEW WAREHOUSE AND CANTEN PROJECT	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TORBALI İZMİR	TURKEY	The project covers multi discipline detail design services and construction management and site supervision services during construction period. Structures within the scope of the project are as follows; - New Production Hall (TF4 - Torbalı Factory 4), - New Warehouse Block, - Cafeteria Building, - Archive Building, - Modernisation in Auxiliary Facilities
665	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	FLASH TOWER DRYER DESIGN AND CONSULTANCY SERVICES	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TORBALI İZMİR	TURKEY	The project covers multi discipline basic and detail design services, construction management and site supervision services during construction period.
663	BRITISH AMERICAN TOBACCO	TİRE TOBACCO FACILITIES SECONDARY EXTENTION	BRITISH AMERICAN TOBACCO	TİRE İZMİR	TURKEY	The project covers multi discipline basic design and detail design services.
653	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	PMSA İZMİR DC RENOVATION PROJECT PREPARATION OF TENDER DOCUMENTS AND CONSULTANCY SERVICES	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	İZMİR	TURKEY	The project covers detail design services in architectural and mechanical equipment disciplines and construction management and site supervision during construction period.
647	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	PMSA İSTANBUL GÜNEŞLİ DC. SURVEYING AND REINFORCEMENT PROJECT FOR EARTH-QUAKE SAFETY	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	GÜNEŞLİ İSTANBUL	TURKEY	The project covers detail design services in reinforced concrete discipline and technical support during construction period.
644	ANKARA CHAMBER OF INDUSTRY II. ORGANIZED INDUSTRIAL ZONE	ANKARA II. ORGANIZED INDUSTRIAL ZONE INFRA-STRUCTURE CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION	ANKARA CHAMBER OF INDUSTRY II. ORGANIZED INDUSTRIAL ZONE	ANKARA	TURKEY	The project covers construction management and site supervision services during construction period.
643	ATM HAVALİMANI YAPIM VE İŞLETME A.Ş.	DALAMAN AIRPORT NEW INTERNATIONAL LINES TERMINAL COMPLEX FOLLOW UP WORK SCHEDULE AND STEEL CONSULTANCY SERVICES FOR PREPARATION OF CONSTRUCTION DRAWINGS	ATM HAVALİMANI YAPIM VE İŞLETME A.Ş.	DALAMAN İZMİR	TURKEY	The project covers construction management during construction period.
636	TEKSER CONST. AND TRADE INC.	BENGHAZI CONVEYANCE PUMP STATION "FOREBAY" TANK PIPING DESIGN SERVICES	TEKSER CONST. AND TRADE INC.	BENGHAZI	LIBYA	The project covers the detail design services in mechanical equipment discipline.
631	BRISA LASTİK SANAYİ VE TİC.A.S.	EXTENTION PHASE NO3 CONSTRUCTION PROJECT CONSULTANCY SERVICES	BRISA LASTİK SANAYİ VE TİC.A.S.	İZMİR KOCAELİ	TURKEY	The project covers multi discipline basic design, detail design services and technical support during construction period for 45000 m ² closed area of warehouse.
625	TURKISH WAGON INDUSTRY CO.	12. HALL (PREPARING HALL) DETAIL DESIGN	TURKISH WAGON INDUSTRY CO.	ADAPAZARI	TURKEY	The project covers multi discipline basic design and detail design services.
618	PUBLIC PROCUREMENT AUTHORITY	PUBLIC PROCUREMENT AUTHORITY DIRECTORATE BUILDING INFRASTRUCTURE PROJECT	PUBLIC PROCUREMENT AUTHORITY	ANKARA	TURKEY	The project covers basic design and detail design services in mechanical installation discipline.
617	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	PMSA DİYARBAKIR DC PROJECTS TENDER DOCUMENT PREPARATION AND CONSTRUCTION SUPERVISION SERVICES	PHILIP MORRIS SABANCI PAZARLAMA VE SATIŞ A.Ş. İSTANBUL	DİYARBAKIR	TURKEY	The project covers multi discipline basic and detail design and construction management during construction phase.
615	STATE AIRPORT AUTHORITY	ANKARA ESENBÖĞA AIRPORT PRELIMINARY DESIGN SERVICES	GAMA ENDÜSTRİ TESİSLERİ İMALAT VE MONTAJ A.Ş.	ESENBÖĞA ANKARA	TURKEY	The project covers basic design and detail design services in architecture, reinforced concrete disciplines.
609	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TOBACCO FACILITIES EXTENSION PROJECT PHASE II CHILLER PROJECTS	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TORBALI İZMİR	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
607	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TOBACCO PLANT DEVELOPMENT PROJECT PHASE I CONSULTANCY AND CONSTRUCTION MANAGEMENT SERVICES	PHILSA PHILIP MORRIS SABANCI SİĞARA VE TUTUNCULUK SAN.VE TİC.A.S. İZMİR	TORBALI İZMİR	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
606	TURKISH WAGON INDUSTRY CO.	RAILWAY CAR PLANT NEW GLASS, BREAK, VALVE, CARPENTER, FURNISHING SHOP APPLICATION DESIGN SERVICES	TURKISH WAGON INDUSTRY CO.	ADAPAZARI	TURKEY	The project covers basic and detail design and construction management and site supervision services during construction period.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
604	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIREC- TORATE	EGO GENERAL DIRECTORATE BUILDING CONSULTANCY SERVICES FOR CI-ONSTRUC- TION SUPERVISION	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA	TURKEY	The project covers supervision of demolishing of existing buildings on the construction area and construction of EGO General Management Service Building, having 25 storeys. This building is a smart building composed of high technology applications, Building Automation Systems (BAS), Energy Management Systems (EMS), Central Control and Management Systems (CCMS), Communication Systems (video, sound and data), Security systems, Optimum energy management, Building automation, SCADA and the required network systems, applications, control, communication systems. Total construction area: 94.000 m ²
600	USAK CHAMBER OF COM- MERCE & INDUSTRY	USAK CHAMBER OF COMMERCE INDUSTRY SHOPPING BUILDING DESIGN SERVICES	USAK CHAMBER OF COM- MERCE & INDUSTRY	USAK	TURKEY	The project covers detail design services in reinforced concrete, electrical and mechanical installation disciplines.
596	AKAR ELEVATOR MOTOR CO.	ELEVATOR MOTOR NEW PRODUCTION PLANT DESIGN AND PREPARATION OF TENDER DOCUMENTS SERVICES	AKAR ELEVATOR MOTOR CO.	SILIVRI İSTANBUL	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
593	PHILSA PHILIP MORRIS SABANCI SIGARA VE TUTUNCULUK SAN.VE TIC.A.S. İZMİR	TOBACCO FACILITIES DEVELOPMENT BURLEY LINE PROJECT CONSULTANCY AND CON- STRUCTION MANAGEMENT	PHILSA PHILIP MORRIS SABANCI SIGARA VE TUTUN- CULUK SAN.VE TIC.A.S. İZMİR	TORBALI İZMİR	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
592	TUBITAK THE SCIENTIFIC AND TECH- NICAL RESEARCH COUNCIL OF TURKEY	T.T.Ü.D.A. PROJECT ROCKET PRODUCTION PLANT PROJECT	TUBITAK - SAGE	TUBITAK SAGE LALAHAN ANKARA	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
587	SANLI URFA MUNICIPALITY	SANLIURFA FRESH WATER PREPARATION PROPOSAL PROJECT	ERKO İNSAAT TICARET LTD. ŞTİ.	SANLI URFA	TURKEY	The project covers multi discipline basic design services.
586	PHILIP MORRIS SABANCI PAZARLAMA VE SATIS A.S. İSTANBUL	PMSA GENERAL DIRECTORATE BUILDING	PHILIP MORRIS SABANCI PAZARLAMA VE SATIS A.S. İSTANBUL	CAMLICA İSTANBUL	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services for Directorate General Buildings of PHILSA in İstanbul during construction period. The total closed area of the buildings is 14.750 m ² . The building has composed of closed parking area, offices and warehouses
582	TURKISH WAGON INDUS- TRY CO.	TUVASAS CHEMICAL PROCESS, CUTTING PRE- PARING, AND REPAIRING FABRICATION HALL	PROKON MANUFACTURING AND ERECTION INC.	ADAPAZARI	TURKEY	The project covers multi discipline basic design and detail design services.
573	GENERAL DIRECTORATE OF STATE HYDRAULIC WORKS	MELEN WATER INTAKE REGULATOR AND ME- LEN AND CUMHURİYET PUMPING SYSTEMS PROJECT	YUKSEL İNSAAT A.S.	MELEN - K.EREGLİSİ CUMHURİ- YET VILLAGE - İSTANBUL	TURKEY	The project covers basic design and detail design services in mechanical equipment discipline.
572	MASTER ENERJİ LTD.	PAPER FACTORY TURBINE PIPING STRESS ANALYSIS	MASTER ENERJİ LTD.	CORLU	TURKEY	The project covers basic design services in process and piping discipline.
570	DELPHİ OTOMOTİV SIS. SAN. VE TIC. A.S.	DELPHİ AUTOMOTIVE SYSTEMS NEW PRO- DUCTION FACILITIES	DELPHİ OTOMOTİV SIS. SAN. VE TIC. A.S.	EGE FREE ZONE İZMİR	TURKEY	In the scope of Delphi Automotive New Production Facility Project, the facility having a 14.983 m ² total area was built. Prokon Mühendislik ve Müşavirlik A.Ş.providedboth multi discipline basic and detail design and construction supervision services.
568	TURKISH WAGON INDUS- TRY CO.	NEW FABRICATION HALL REPAIRING, REINFORCED, ROOF AND WALL CLADDING	EKON A.S.	TURKISH WAGON INDUSTRY CO.	TURKEY	The project covers detail design services in architectural, reinforced concrete and steel disciplines.
558	İZMİR BERGAMA ORGANIZED INDUSTRIAL ZONE ENTREPRENEUR ORGANIZATION	İZMİR BERGAMA ORGANIZED INDUSTRIAL ZONE STUDY AND DESIGN ENGINEERING SERVICES	İZMİR BERGAMA ORGA- NIZED INDUSTRIAL ZONE ENTREPRENEUR ORGANI- ZATION	BERGAMA İZMİR	TURKEY	The project covers multi discipline basic design and detail design services.
553	TURKISH WAGON INDUS- TRY CO.	WAGON WORKSHOP AFTER EARTHQUAKE MAINTENANCE AND MODIFICATION	EKON A.S.	ADAPAZARI	TURKEY	The project covers multi discipline detail design services.
551	ERDEMİR IRON AND STEEL PLANT	ERDEMİR NEW GENERAL DIRECTORATE BUILDING DESIGN SERVICES	ERDEMİR IRON AND STEEL PLANT	KARADENİZ EREGLİ	TURKEY	The project covers multi discipline basic design and detail design services.
536	SPIERER TOBACCO EXPORT İND. INC.	AKHİSAR TOBACCO STORE BUILDING	SPIERER TOBACCO EXPORT İND. INC.	AKHİSAR MANİSA		The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
517	KARS KAFKAS UNIVERSITY	KARS KAFKAS UNIVERSITY BRIDGE PROJECT	KARS KAFKAS UNIVERSITY	KARS	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
510	DİLER HOLDİNG İNC.	RİVER BRİDGE PASSİNG (DİLDERESİ PASSİNG)	DİLER HOLDİNG İNC.	DİLDERESİ	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
501	TURKISH STATE METE- OROLOGICAL GENERAL DIRECTORATE	RADAR OPERATION CENTER	TURKISH STATE METE- OROLOGICAL GENERAL DIRECTORATE	ANKARA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
487	OZTAS A.S.	HEATING CENTER PROJECT	OZTAS A.S.	İZMİR	TURKEY	The project covers the detail design services in architecture and steel disciplines.
459	TURKISH ORGANIZATION OF SCIENTIFIC RESEARCH	AEROBLASTIC RESERCH LABORATORY	TUBITAK - SAGE	LALAHAN ANKARA	TURKEY	The project covers multi discipline detail design services.
455	ETİBANK	BİGADİC BÖRACIS MİLL FACİLİTES DESIGN AND ENGINEERING SERVICES	GİMAS A.S.	BİGADİC BALİKESİR	TURKEY	The project covers multi discipline basic design and detail design services.
453	BRİSA LASTİK SANAYİ VE TİCARET A.S.	EXTENTION PHASE NO2 CONSTRUCTION PROJECT CONSULTANCY SERVICES	BRİSA LASTİK SANAYİ VE TİCARET A.S.	İZMİT KOCAELİ	TURKEY	The project covers multi discipline basic design, detail design services and technical support for the buildings having 53.000 m ² closed area and field having 15.000 m ² area.





Building Construction



PROKON - EKON GROUP NEW HEADQUARTER BUILDING

Ankara, TURKEY

Client:
PROKON - EKON GROUP
COMPANIES

Prokon - Ekon Group of Companies has decided to gather all the companies under a single roof. Therefore, it is decided to design and build a Headquarter Building as a Green Building which is a Candidate for LEED Platinum Certificate.

The details of the headquarter building are as follows:

- 16.750 m² Construction Area
- 8.000 m² Closed Area (excluding the car parks)
- Conference Hall with 120 People Capacity
- Working Area for 270 People
- Car Park for 140 Vehicles
- Cafeteria
- 90 m² Fitness Area
- 700 tons of Steel

Headquarter is designed with a modern architectural concept featuring the transparency. The steel elements are left open in order to be identified at interior and the facade of the building is selected as glass facade system in order for steel elements to be spotted from outside.

The structural design of the building pushes the boundaries with console block having 22 m width and reaching a length of 16 m, the composite floors having just 10 cm thickness, and stairs having 6 m console length and produced with only plates.

The following design approaches were applied for LEED Platinum Certificate Candidacy:

- Design of the building shell having increased performance to reduce energy expenses
- Cogeneration, Solar Collectors, Solar Wall, Heat Accumulation, Building Automation System, %30 more Air Quality, Gray Water System, Sun Light Control & Illumination Automation.

Also all of the design and engineering stages were completed by using the Software, "COMOSYS" which is developed by PROYA Yazılım ve Ticaret A.Ş. a member of PROKON-EKON Group of Companies.

PROKON provided the following services under the scope of this project;

Design & Engineering Services:

- Structural
- Architectural
- Mechanical Works (HVAC, Fire System, Plumbing, Piping etc.)
- Electrical Works (Power, Lighting, Grounding, Telephone, Data Lines, Fire Alarm System, Automation etc.)

Construction Supervision Services





ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE BUILDING

Ankara, TURKEY

Client:
ANKARA METROPOLITAN
MUNICIPALITY EGO GENERAL
DIRECTORATE

The service area of EGO (The Administration responsible from transportation and natural gas, under Ankara Municipality) has increased incrementally along with increasing population of Ankara.

Due to serving in different parts of the city with very old buildings, EGO's work progress was slowed and became inefficient. This case brought the necessity of a General Directorate Building including all units of EGO and some units of the Municipality. The Old Bus Terminal with very old buildings was picked as the place of this building. First phase was to demolish those buildings. During demolition of buildings, the design of 25-storey building was completed.

This building is a Smart Building composed of high technology applications, Building Automation Systems (BAS), Energy Management Systems (EMS), Central Control and Management Systems (CCMS), Communication Systems (Video, Sound and Data), Security Systems, Optimum Energy Management, Building Automation, SCADA and the required Network Systems, Applications, Control, Communication Systems.

The construction works took 3 years and the contract ended at February 2006. However due to some unfinished construction works, EGO, the contractor and we signed another contract in March 2006 and the final touches were finished at August 2006.

The total area of the project was 93.000 m².

PROKON provided the following services under the scope of this project;

Design & Engineering Services:

- Control of the Drawings according to Technical Specifications

Preparation of the Tender Files

- Preparation of the Tender Files & Technical Support to the Client in Preparation of the BOQ.

Construction Supervision Services:

- Construction Supervision (Planning, Activity Monitoring, Cost Control, Quality Control, Design Control, Coordination, Reporting)
- Supervision of Demolition Works
- Supervision of Mechanical Works
- Supervision of Electrical Works
- Supervision of Infrastructural Works



PROKON provided the following services under the scope of the projects;

Construction Supervision Services:

- Construction Supervision (Planning, Activity Monitoring, Cost Control, Quality Control, Design Control, Coordination, Reporting)
- Supervision of Mechanical Works
- Supervision of Electrical Works
- Supervision of Infrastructural Works

BTK BUILDING, MAYEM BUILDING, 1760 HOUSES AND HOSPITAL HAVING 300 BEDS CAPACITY, IN ANKARA

Ankara, TURKEY

Client:
REPUBLIC OF TURKEY
PRIME MINISTRY, HOUSING
DEVELOPMENT ADMINISTRATION
OF TURKEY

PROKON and Republic of Turkey Prime Ministry Housing Development Administration of Turkey signed the contract for the Consultancy Services for Construction Supervision of 1760 houses, a hospital having 300 beds capacity, BTK and MAYEM Buildings in Ankara. Under the scope of the contract, construction supervision services has provided for the following projects.

MAYEM (Higher Education Center of Finance) Service Building

Project covers 9-storey (2 Basement + Entrance + 6 Floor) building with 13 blocks. MAYEM Service Building includes these units; Guest Rooms, Sport Hall, Social Domain, Game Arcade, Administrative Divisions, Classrooms, Dining Hall, Café, Meeting Rooms, Multi-Purpose Hall, Conference Hall, Heating Unit, Air Conditioning Unit and Parking Lots. Building's facade designed as aluminum curtain-wall. Building is constructed with Conventional Formwork Construction Technology on Raft Foundation and has aluminum skylight system on steel roof. 10.000 m² Synthetic Turf is used for walkable roof.

Total construction area is approximately 67.047,68 m² and total construction period is 650 days.

BTK (Information Technologies & Communication Institution) Service Building

Housing Development Administration has decided to build a new service building for Information Technologies and Communication Institution Department in Ankara. Project covers 20-storey (3 Basement + Entrance + 16 Floor) building with 16 blocks. Foundation begins at -19,00 m and supported by 22 meter length bored piles. In architectural perspective, building has aluminum skylight system on steel construction at +78,60. Building's facade has glass curtain-wall and has aluminum sunshades. Plywood and plastic formworks are used for Conventional Formwork Construction Technology.

Total construction area is approximately 113.481,40 m² and total construction period is 1.300 days.

Polatlı Hospital

Project covers Construction Supervision Services for 300-bed-capacity hospital in Polatlı, Ankara.

1760 Houses

Project covers Construction Supervision Services for 1760 houses in several locations in Ankara.





1ST GROUP CULTURAL, SPORT, SERVICE AND CAR PARK BUILDINGS AROUND İSTANBUL

İstanbul, TURKEY

Client:
İSTANBUL METROPOLITAN
MUNICIPALITY

The Contract related to “Design and Engineering Services of 1st Group Cultural, Sport, Service and Car Park Buildings around İstanbul” was signed between PROKON and İstanbul Metropolitan Municipality on January 27th, 2012.

The consultancy services of this project include the design of stadium, youth center, sports halls, buildings, underground car parks and also landscaping having an area of 203.000 m².

The Project covers the design services of the following structures;

- Çatalca Solid Waste Transfer Station (4.740 m²),
- Üsküdar Haydarpaşa Numune Hospital Underground Car Park (51.865 m²),
- Çatalca Kaleiçi Fire Station (3.407 m²),
- Gaziosmanpaşa Barbaros Hayrettinpaşa Closed Sport Hall & Youth Center (24.120 m²),
- Esenler Stadium (38.223 m²),
- Ümraniye Çakmak Quarter Underground Multi-storey Car Park (39.471 m²),
- Esenler Fevzi Çakmak Quarter Multi-storey Car Park (4.016 m²),
- Küçükçekmece Fevzi Çakmak Quarter Multi-storey Car Park (73.460 m²),
- Esenler Havaalanı Underground Multi-storey Car Park (35.191 m²).



The features of Esenler Stadium designed within the scope of Project are;

- 5231 seat capacity,
- Closed Area: 38.223 m².
- Football Field: 8.834 m².
- Swimming Pool
- 4 Sport Halls (for Indoor Sport)





ÇORLU PARK COMPLEX

Tekirdağ, TURKEY

Client: PROKON-EKON GROUP

Çorlu Park Complex is an investment project of PROKON-EKON Group of Companies in Çorlu.



The project covers the following buildings:

- 588 Dwellings (9 blocks with 14 storeys)

PROKON provided following services under the scope of this project:

- Plant Lay-Out
- Site Preparation
- Architectural & Engineering Design Services Including Structural, Mechanical, Electrical
- Technical Support During Implementation of the Work
- Overall Design Work Schedule Monitoring
- Coordination between Units & Engineering Disciplines



MARMARA EARTHQUAKE SAKARYA REGION PERMANENT HOUSING

Sakarya, TURKEY

Client:
T.R. MINISTRY OF PUBLIC
WORKS & SETTLEMENT

Following the severe earthquake that occurred in the Marmara Region on 17th August 1999, TR Ministry of Public Works and Settlement has identified an Emergency Reconstruction Program in the affected areas.

Sakarya Region Permanent Housing Engineering Design and Consultancy Services were provided by PROKON.

Reconstruction program has been composed of 5 regions such as Bolu-Düzce, Sakarya-Centrum, Kocaeli-Centrum, Kocaeli-Gölcük-Gulf Region and Yalova-Istanbul. Our consultancy services have included reconstruction program of 6000 houses and 1500 work places in Sakarya-Centrum. The total construction area of housings, social facilities, infrastructure and landscaping is 700.000 m².



The following services were provided by PROKON under the scope of this project;

Geologic & Geotechnical Studies (Boring, Laboratory Experiments & Preparation of Technical Reports),

Preparation of Development Plans, Mapping & Topographical Survey

Design Services

- Architectural
- Reinforced Concrete Bearing System
- Mechanical Works
- Electrical Works
- Landscaping

Construction Supervision Services

- Plan & Activity Tracing & Control
- Cost Control
- Quality Control
- Design Control & Interior Furnishing Plan Preparing
- Coordination
- Reporting



4669 HOUSES WITH THE SOCIAL FACILITIES IN AGEAN REGION

Afyon, Balıkesir, Bilecik, Bursa, Isparta, Kütahya, Uşak, Yalova, TURKEY

Client:
REPUBLIC OF TURKEY, HOUSING DEVELOPMENT
ADMINISTRATION OF TURKEY



The project covers Construction Supervision of 4669 Houses with the Social Facilities in Afyon, Balıkesir, Bilecik, Bursa, Isparta, Kütahya, Uşak and Yalova during and after construction period.

The total building area of the project is 726.450 m².

The project also covers the Construction Supervision of Road Connections, Infrastructural, Environmental and Landscaping Works.

Some of the social facilities within the scope of this project are as follows;

- Bursa - 24-Classroom & 32-Classroom Primary Schools, two Sport Halls, two Mosques & two Commercial Centers,
- Afyon - Kindergarten, Commercial Center,
- Balıkesir - Kindergarten, Commercial Center, Fountain & Mosque
- Uşak - Primary

PROKON provided the following services under the scope of this project;

Site Supervision Services

- Plan & Activity Tracing & Control
- Contract Management,
- Coordination & Management Services
- Cost Control,
- Quality Control,
- Coordination
- Reporting
- Follow up Settlement Permits
- Provisional & Final Acceptances



6112 HOUSES WITH THE SOCIAL FACILITIES IN EAST ANATOLIA REGION

Batman, Diyarbakır, Elazığ, Hakkari, Mardin, Şanlıurfa, Tunceli, Van, TURKEY

Client:
REPUBLIC OF TURKEY,
HOUSING DEVELOPMENT
ADMINISTRATION OF TURKEY

The project covers Construction Supervision of 6112 Houses with the Social Facilities in Batman, Diyarbakır, Elazığ, Hakkari, Mardin, Şanlıurfa, Tunceli and Van during and after construction period.

The total building area of the project is 935.399 m².

The project also covers the Construction Supervision of Road Connections, Infrastructural, Environmental and Landscaping Works.

Some of the social facilities within the scope of this project are as follows;

- Thirteen Trade Centers, one Social Centre, eleven Shops, three Health Centers, one 32-Classroom Elementary School, two 40-Classroom Elementary Schools, two 16-Classroom Elementary Schools, four 24-Classroom Elementary Schools, one 8-Classroom Elementary School, two 5-Classroom Elementary Schools, six Nursing Homes, three Sports Halls, three Kindergartens, eight Mosques.

PROKON provided the following services under the scope of this project;

Site Supervision Services

- Plan & Activity Tracing & Control
- Contract Management,
- Coordination & Management Services
- Cost Control,
- Quality Control,
- Coordination
- Reporting
- Follow up Settlement Permits
- Provisional & Final Acceptances



building construction references

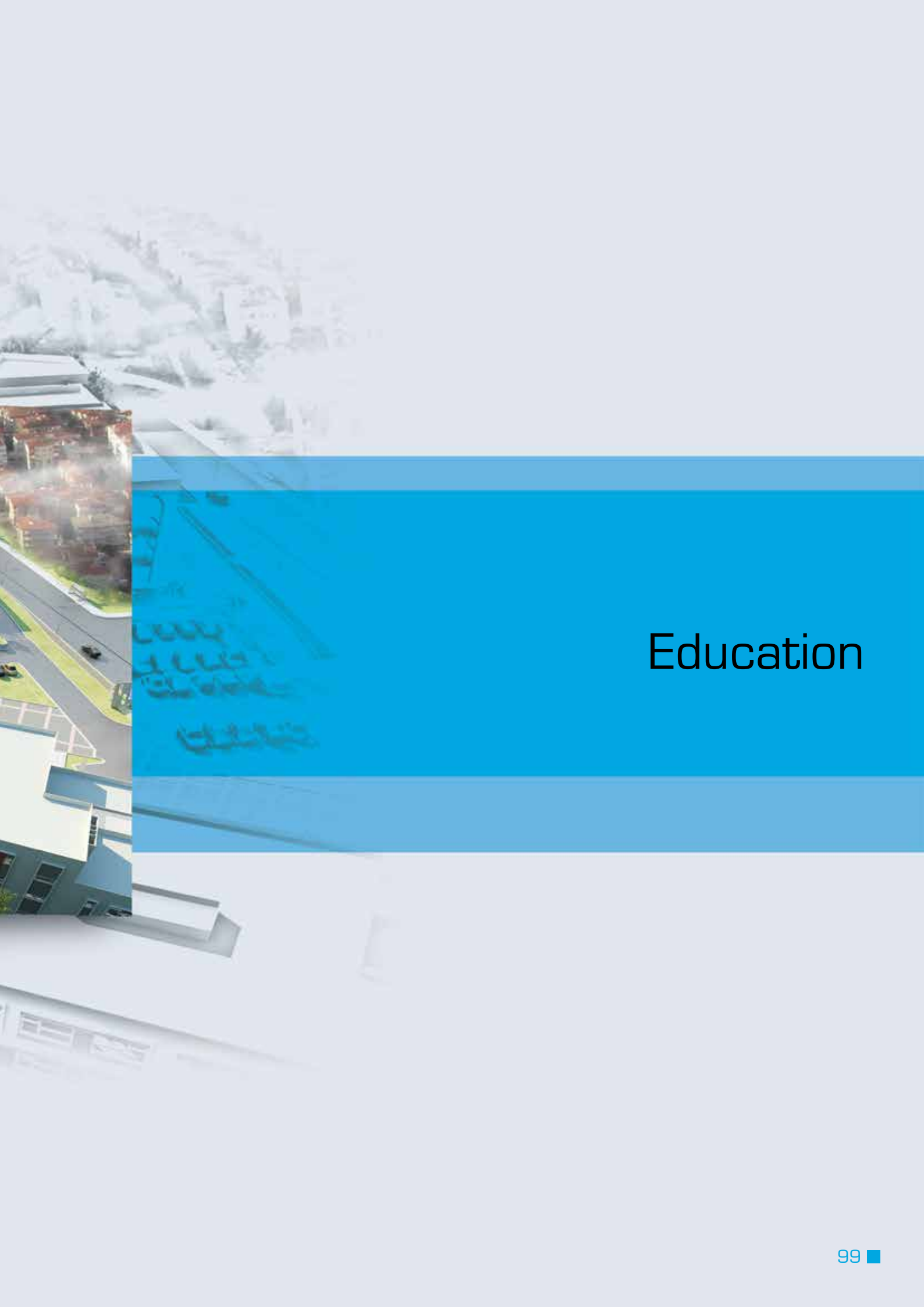
PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
824	SECRETAR- IAT OF THE NATIONAL INTELLI- GENCE OR- GANISATION (MIT)	HATAY FACILITY BUILDINGS	SECRETAR- IAT OF THE NATIONAL INTELLIGENCE ORGANISA- TION (MIT)	HATAY	TURKEY	The project covers construction management, technical support and site supervision services during construction period.
798	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVEL- OPMENT ADMINIS- TRATION OF TURKEY	PRIME MINISTRY SERVICE BUILDING	REPUBLIC OF TURKEY PRIME MINIS- TRY HOUSING DEVELOP- MENT ADMIN- ISTRATION OF TURKEY	ANKARA	TURKEY	The project covers construction management and technical support services during construction period.
783	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVEL- OPMENT ADMINIS- TRATION OF TURKEY	1760 FLATS, 300 BEDS CAPACITY HOSPITAL AND SOCIAL FACILITIES IN ANKARA	REPUBLIC OF TURKEY PRIME MINIS- TRY HOUSING DEVELOP- MENT ADMIN- ISTRATION OF TURKEY	ANKARA	TURKEY	The project covers construction management, technical support and site supervision services during construction period.
772	ISTANBUL METROPOLI- TAN MUNICI- PALITY	1st GROUP CULTURE, SPORTS, SERVICE AND CAR PARK STRUCTURES	ISTANBUL METROPOLI- TAN MUNICI- PALITY	İSTANBUL	TURKEY	The project covers multi discipline basic and detail desing engineering services during the construction period.
771	PROKON EKON GROUP	PROKON - EKON GROUP NEW HEAD- QUARTER BUILDING	PROKON EKON GROUP	ANKARA	TURKEY	The project covers multi discipline engineering services for basic and detailed design, technical support and site supervision services during construction period.
751	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVEL- OPMENT ADMINIS- TRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 4614 FLATS, 7 HOSPITALS AND SOCIAL FACILITIES IN EAST ANATOLIA, EAST BLACKSEA ANATOLIA DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MIN- ISTRY HOUSING DE- VELOPMENT ADMINIS- TRATION OF TURKEY	EAST ANATO- LIA AND EAST BLACKSEA PROVINCES (17 CITIES)	TURKEY	The project covers site supervision services during construction and defects and liability period. The facilities in the scope of this project are as follows: - 4614 houses in 17 different cities - Ağrı Diyadin State Hospital (50 Beds Capacity) and mass housing - Bingöl Hospital (200 Beds Capacity) - Diyarbakır Bismil Hospital (100 Beds Capacity) - Diyarbakır Bismil County, Tepe Town Hospital (18 Beds Capacity) - Erzincan Tercan Hospital (50 Beds Capacity) and mass housing - Gümüşhane Torul Hospital (10 Beds Capacity) - Malatya Hospital (640 Beds Capacity) - Muş State Hospital (300 Beds, 400 patients capacity)
740	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVEL- OPMENT ADMINIS- TRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 6712 FLATS, 4 HOSPITALS AND SOCIAL FACILITIES IN EAST ANATOLIA DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MIN- ISTRY HOUSING DE- VELOPMENT ADMINIS- TRATION OF TURKEY	EAST ANATOLIA PROVINCES (12 CITIES)	TURKEY	The project covers site supervision services during construction and defects and liability period. The facilities in the scope of this project are as follows: - 6712 houses in 12 cities - Ardahan State Hospital (150 Bed Capacity) - Bingöl, Genç State Hospital (50 Bed Capacity) and public housing - Kars, Sarıkamış State Hospital (50 Bed Capacity) - Tunceli State Hospital (150 Bed Capacity)

building construction references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
698	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 6112 HOUSING, 3 HEALTH UNITS AND SOCIAL FACILITIES DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	HAKKARI DIYARBAKIR TUNCELI BATMAN SANLIURFA ELAZIG VAN MARDIN	TURKEY	The project covers site supervision services during construction and defects and liability period. The total building area of the project is 935.398,80 m². The project also covers the construction supervision of road connections, infrastructural, environmental and landscaping works. The social facilities within the scope of this project are as follows; - 13 Trade Center, 1 Social Centre, 11 shops, 3 Health Centre, 1 32-Classroomed Elementary School, 2 40 Classroomed Elementary School, 2 16 Classroomed Elementary School, 4 24 Classroomed Elementary School, 1 8 Classroomed Elementary School, 2 5 Classroomed Elementary School, 6 nursing home, 3 Sports Hall, 3 kindergartens, 8 mosques.
683	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF (6644 EACH) PUBLIC HOUSING	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	ZONGULDAK, ESKISEHIR, ANKARA, BARTIN, KARABUK, SAMSUN, KASTAMONU	TURKEY	The project covers construction supervision services during construction and defects and liability period for 6644 houses with social facilities (956.546 m2 closed area) in Zonguldak, Eskişehir, Ankara, Bartın, Karabük, Samsun, Kastamonu.
680	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 3380 HOUSING AND SOCIAL FACILITIES DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	YOZGAT, KAYSERİ, KASTAMONU, ÇORUM, KONYA, BOLU, KIRŞEHİR	TURKEY	The project covers site supervision services during construction and defects and liability period. The total building area of the project is approximately 520.000 m². The project also covers the construction supervision of road connections, infrastructural, environmental and landscaping works. The social facilities within the scope of this project are as follows; - One high school, - Three 24 classroomed primary schools, - Two commercial centers, - Mosque, Library and Fountain.
651	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 4669 HOUSING AND SOCIAL FACILITIES DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	AFYON BALIKESİR Bİ- LECİK BURSA UŞAK ISPARTA KÜTAHYA YALOVA	TURKEY	The project covers site supervision services during construction and defects and liability period. The total building area of the project is 726.449,77 m². The project also covers the construction supervision of road connections, infrastructural, environmental and landscaping works. The social facilities within the scope of this project are as follows; - Bursa- 24 classroomed and 32 classroomed primary schools, two sport saloons, two mosques and two commercial centers, - Afyon-Kindergarten, commercial center, - Balıkesir- Kindergarten, commercial center, fountain and mosque - Uşak- Primary School, commercial center, fountain, mosque and cafeteria.
595	CEVREGOL PARLAMENT HOUSING COOPERATIVE	CEVREGOL PARLAMENT HOUSING COOPERATIVE (TOTAL 194 VILLASCONSTRUCTION)	EKON A.S.	ANKARA	TURKEY	The project covers basic design and detail design services in infrastructure discipline and construction management and site supervision services within two areas of 200.000 m².
571	REPUBLIC OF TURKEY PRIME MINISTRY PROJECT IMPLEMENTATION UNIT	MARMARA EARTHQUAKE INFRASTRUCTURAL AND URBAN RECONSTRUCTION PROJECT (TERRA-1) SMALL BUSINESS-CENTER ENGINEERING DESIGN AND CONSULTANCY SERVICES	REPUBLIC OF TURKEY PRIME MINISTRY PROJECT IMPLEMENTATION UNIT	ADAPAZARI DUZCE BOLU	TURKEY	The project covers multi discipline basic and detail design services and site supervision services for 31 small business facility having approximately 200.000 m² area.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
566	EKON INDUSTRY CONSTRUCTION TRADE INC.	BILKENT BUILDINGS ENGINEERING SERVICES	EKON A.S.	BILKENT ANKARA	TURKEY	The project covers basic design and detail design services in reinforced concrete and steel disciplines.
552	TEAS GENERAL DIRECTORATE	YALOVA TRANSFORMER STATION DISMANTLING OF EARTHQUAKE DAMAGED HOUSING BUILDING AND NEW STEEL HOUSING BUILDING (1X6 APTS) ENGINEERING SERVICES	EKON A.S.	TEAS THERMAL POWER YALOVA	TURKEY	The project covers basic design and detail design services in reinforced concrete, steel and mechanical equipment disciplines.
547	CEVREGOL PARLAMENT HOUSING COOPERATIVE	PARLAMENT HOUSING COOPERATIVE (205 VILLAS)	EKON A.S.	INCEK ANKARA	TURKEY	The project covers infrastructural basic design services.
539	REPUBLIC OF TURKEY MINISTRY OF PUBLIC WORKS	MARMARA REGION 2.nd GROUP SAKARYA CENTER EARTHQUAKE BUILDINGS (6.000 HOUSES + 1.500 SMALL BUSINESS) PROJECT	REPUBLIC OF TURKEY MINISTRY OF PUBLIC WORKS	SAKARYA CENTER/ KARAMAN FERIZLI	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period. Consultancy services have included reconstruction programme of 6000 houses and 1500 work places in Sakarya-Centrum. The total construction area of housings, social facilities, infrastructure and landscaping is 700.000 m ² .
507	ARIF TANSI	TANSI VILLA	DINO ARCHITECTURE	INCEK ANKARA	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period.
479	DOGAYAKA HOUSING COOPERATIVE	DESIGN SERVICES FOR 32 VILLAS	DOGAYAKA HOUSING CO-OPERATIVE	ORHANGAZI BURSA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.





Education



ATATURK DORMITORY CAMPUS AND 40 SCHOOLS (EIB-CB1.5/A)

Istanbul, TURKEY

Client:
ISTANBUL SPECIAL PROVINCIAL
ADMINISTRATION ISTANBUL
PROJECT COORDINATION
UNIT - WORLD BANK

In response to this risk, the Government of Turkey (GOT), with the assistance of the International Bank of Reconstruction and Development (IBRD), has identified a project called Istanbul Seismic Risk Mitigation and Emergency Preparedness Project (ISMEP) which is financed by a World Bank Loan (4784 TU). The project is implemented by Istanbul Project Coordination Unit which is established under the Istanbul Special Provincial Administration (ISPA).

The specific objective of the project is to improve the preparedness of Istanbul for a potential earthquake through enhancing the Institutional and Technical Capacity for Disaster Management and Emergency Response, Strengthening Critical Public Facilities for Earthquake Resistance, and Supporting Measures for better enforcement of building codes and land use plans.

Within the scope of Consultancy Services for Design Services, PROKON provided Design and Tender Documents Preparation of 44 schools (approximately 315.000 m² area), Atatürk Dormitory Campus (approximately 109.990 m² area), Disaster Logistic Center (approximately 13.000 m²) and 2 District Governorship Buildings (approximately 26.000 m² area).

Within the scope of Consultancy Services for Design Services, PROKON provided Consultancy and Construction Supervision of 45 School Buildings (322.420 m²), Atatürk Dormitory Campus (109.990 m²), Additional Service Building of Süleymaniye Maternity and Gynecology Training and Research Hospital (8.158 m²), 1 Nursery House (4.546 m²), 1 Social Center (1.700 m²) and 1 District Governorship Building (9.817m²) during the Construction Stage and Defects Liability Period.

PROKON provided the following services under the scope of this project:

- Engineering and Design Services
- Preparation of Tender Documents related with the Construction Contract in accordance with International Financial Institutions (IFI's) such as the World Bank (IBRD), Islamic Development Bank (IDB), European Investment Bank (EIB), Council of Europe Development Bank (CEB) etc. Guidelines and Standard Bidding documents.
- Construction Supervision Services





RECONSTRUCTION PROJECT FOR SELECTED SCHOOLS IN İSTANBUL (CB 1.4/B)

İstanbul, TURKEY

Client:
İSTANBUL
PROJECT
COORDINATION
UNIT

Within the framework of this project, Consultancy Services cover the Design of 32 schools (154.000 m²) and Construction Supervision of 33 School Buildings to be reconstructed.



PROKON provided the following services under the scope of this project:

Engineering and Design Services

- Structural
- Architectural
- Mechanical Works (HVAC, Fire System, Plumbing, Piping etc.)
- Electrical Works (Power, Lighting, Grounding, Telephone, Data Lines, Fire Alarm System, Automation etc.)

Preparation of Tender Documents related with the Construction Contract in accordance with International Financial Institutions (IFI's) such as the World Bank (IBRD), Islamic Development Bank (IDB), European Investment Bank (EIB), Council of Europe Development Bank (CEB) etc. Guidelines and Standard Bidding Documents

- Tender Document includes the Conditions of Contract, Form of Bid, Technical Specifications, Bill of Quantities (BOQ's), Final Designs, System/Detailed Drawings and etc.

Supervision Services

- Demolition Supervision Services
- Construction Supervision Services (Planning, Activity Tracing, Cost Control, Quality Control, Design Control and Interior Furnishing Plan Preparation, Coordination, Reporting)





PROKON provided the following services under the scope of this project:

Design & Engineering Services

- Preparation of Preliminary & Final Drawings.
- Geologic & Geotechnical Studies (Boring, Laboratory Experiments & Preparation of Technical Reports)
- Mapping Works

Tender File Preparation

- Tender File Preparation & Technical Contribution to Administration about Cost Estimating & Quantity Surveying

Site Supervision Services

- Construction Supervision (Planning, Activity Tracing, Cost Control, Quality Control, Design Control & Interior Furnishing Plan Preparation, Coordination, Reporting)



PHYSICAL CONTRIBUTION TO EDUCATION PROJECT, (EFIKAP 2), 1ST, 2ND, 3RD, 4TH GROUP EDUCATION INSTITUTIONS

Various Cities, TURKEY

Client: TR MINISTRY OF NATIONAL EDUCATION

The origin of the project was started with signing the protocol of Physical Contribution to Education Project between Republic of Turkey Ministry of National Education and Istanbul Stock Exchange (ISE). The overall project is divided into 5 groups composing of different education institutions with different characteristics. The education institutions are composed of Elementary Schools, General High Schools, Multipurpose High Schools, Anatolian Teacher High School, Fine Arts High School, Industrial Profession High Schools and Apprenticeship School, etc.

1st Group Education Institutions:

Project covers Construction Supervision of 1st Group Education Institutions composing of 28 projects in 14 different cities. Total construction area: 227.000 m².

2nd Group Education Institutions:

Construction Supervision of 2nd Group Education Institutions composing of 23 projects in 16 different cities. Total construction area: 201.000 m².

3rd Group Education Institutions:

Construction Supervision of 3rd Group Education Institutions composing of 28 projects in 13 different cities. Total construction area: 197.000 m².

4th Group Education Institutions:

Construction Supervision of 4th Group Education Institutions composing of 25 projects in 20 different cities. Total construction area: 181.000 m².

The project covers 4 groups, 63 cities, 104 different projects with 806.000 m² total construction area.





HEALTH, EDUCATION, YOUTH SPORT, REAL ESTATE INVESTMENTS IN ANKARA

Ankara, TURKEY



Client: ANKARA SPECIAL PROVINCIAL ADMINISTRATION

The project covers Design and Construction Supervision of Health Centers, Educational Buildings, Youth sport Centers and Real Estate Investments that are to be constructed in the center and counties of Ankara.

Under the scope of this project, Design and Construction Supervision of 24 Educational Buildings (Primary School, High School, Engineering College, etc.) and 18 Health Centers were completed.

Total Construction area of the project is approximately 127.000 m².

PROKON provided the following services under the scope of this project

Design & Engineering Services

- Preparing of Preliminary & Final Drawings.
- Geologic & Geotechnical Studies (Boring, Laboratory Experiments & Preparation of Technical Reports)
- Mapping Works

Tender File Preparation

- Tender File Preparation & Technical Contribution to Administration about Cost Estimating & Quantity Surveying

Site Supervision Services

- Construction Supervision (Planning, Activity Tracing, Cost Control, Quality Control, Design Control & Interior Furnishing Plan Preparation, Coordination, Reporting)



HEALTH, EDUCATION, YOUTH SPORT, REAL ESTATE INVESTMENTS IN ANKARA

Ankara, TURKEY

Client:
ANKARA SPECIAL
PROVINCIAL
ADMINISTRATION

The project covers Design and Construction Supervision of Health Centers, Educational Buildings, Youth Sport Centers and Real Estate Investments that are to be constructed in the center and counties of Ankara.

Under the scope of this project, design of 33 Educational Buildings (Primary School, High School, Engineering College, etc.) and 4 Health Centers were completed.

Total Construction area of the project is approximately 149.950 m².

PROKON provided the following services under the scope of this project:

Design & Engineering Services

- Preparation of Preliminary & Final Drawings.
- Geologic & Geotechnical Studies (Boring, Laboratory Experiments & Preparation of Technical Reports)
- Mapping Works

Tender File Preparation

- Tender File Preparation & Technical Contribution to Administration about Cost Estimating & Quantity Surveying

Site Supervision Services

- Construction Supervision (Planning, Activity Tracing, Cost Control, Quality Control, Design Control & Interior Furnishing Plan Preparation, Coordination, Reporting)





MIDDLE EAST TECHNICAL UNIVERSITY CULTURE AND CONVENTION CENTER

Ankara, Turkey

Client:
MIDDLE EAST
TECHNICAL UNIVERSITY

PROKON provided Architectural, Reinforced Concrete, Steel Structure, Mechanical Equipment, Mechanical Installation, Electrical Installation Engineering Services for The Culture and Convention Center Project of METU.

The Culture and Convention Center of METU, which encompasses the most recent technological facilities, is designed to host local and international conventions, seminars, meetings, conferences, concerts, other cultural activities and related services. The center consists of nine halls, two foyers, a restaurant, support and service units and benefits from the rich facilities and resources of the METU campus.

Following buildings were designed under the scope of this project:

- Kemal Kurdaş Hall, (850 seat capacity, 580 m² stage area)
- A Hall (193 seat capacity, 181 m² area)
- B Hall (196 seat capacity, 178 m² area)
- C Hall (55 seat capacity, 121 m² area)
- D Hall (110 seat capacity, 121 m² area)
- E Hall (15 seat capacity, 46 m² area)
- F Hall (40 seat capacity, 61 m² area)
- G Hall (30 seat capacity, 46 m² area)
- H Hall (25 seat capacity, 61 m² area)
- Big Foyer
- Small Foyer
- Exhibition Hall



education references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
800	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT (PCU)	45 SCHOOLS IN ISTANBUL (ISDB-CB1.5)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT (PCU)	ISTANBUL	TURKEY	The project covers multi discipline basic and detail design services and site supervision services.
788	TURKIYE SISE VE CAM FABRIKALARI A.S	PROJECT PREPARATION OF INDUSTRIAL VOCATIONAL HIGH SCHOOL OF SISE VE CAM A.S IN MERSIN (24 CLASSROOMS)	TURKIYE SISE VE CAM FABRIKALARI A.S	MERSIN	TURKEY	The project covers multi discipline basic and detail design services.
772	ISTANBUL METROPOLITAN MUNICIPALITY	1 st GROUP CULTURE, SPORTS, SERVICE AND CAR PARK STRUCTURES	ISTANBUL METROPOLITAN MUNICIPALITY	ISTANBUL	TURKEY	The project covers multi discipline basic and detail design services.
742	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	(ISMEP) CONSULTANCY SERVICES FOR DESIGN AND RECONSTRUCTION SUPERVISION OF ATATURK DORMITORY CAMPUS AND 40 SCHOOLS IN ISTANBUL (EIB-CB1.5/A)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION	ISTANBUL	TURKEY	The project covers multi discipline basic and detail design services and site supervision services. The consultancy services within the frame of this project include the design and construction supervision of 40 schools (approximately 275.000 m ² area) and Atatürk Dormitory Campus having approximately 110.000 m ² area.
737	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF EDUCATIONAL BUILDINGS IN EAST ANATOLIA AND SOUTH EAST ANATOLIA PROVINCES	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	EAST ANATOLIA AND SOUTH-EAST ANATOLIA PROVINCES (35 CITIES)	TURKEY	The project covers consultancy services for construction supervision of educational buildings.
729	ANKARA SPECIAL PROVINCIAL ADMINISTRATION DIRECTORATE OF DEVELOPMENT AND HOUSING	CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION OF HEALTH, EDUCATION, YOUTH SPORT, REAL ESTATE INVESTMENTS TO BE CONSTRUCTED IN THE CENTRAL AND COUNTIES OF ANKARA, 2008	ANKARA SPECIAL PROVINCIAL ADMINISTRATION DIRECTORATE OF DEVELOPMENT AND HOUSING	THE CENTER & COUNTIES OF ANKARA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services. Under the scope of this project, design and construction supervision of 33 Educational Buildings (Primary School, High School, Engineering College, etc.) and 4 Health Centers have been completed. Total Construction area of the project is approximately 149.950 m ² .
726	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION OF 33 SCHOOLS IN ISTANBUL (CB1.4/B)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	ISTANBUL	TURKEY	The project covers basic and detail design and construction management and site supervision services during construction period. Within the framework of this project, this consultancy services cover the design of 32 schools (167.000 m ²) and construction supervision of 33 school buildings (163.000 m ²) to be reconstructed.
706	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	(ISMEP) CONSULTANCY SERVICES FOR DESIGN REVIEW AND CONSTRUCTION SUPERVISION OF SELECTED HIGH PRIORITY 13 SCHOOL BUILDINGS IN ISTANBUL TO BE RECONSTRUCTED (CB-1.4/A)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION WORLD BANK	ISTANBUL	TURKEY	The project covers multi discipline basic and detail design services and site supervision services. Within the framework of this project, this consultancy services cover the design/ design review of 14 high priority school buildings having an area of approximately 85.000 m ² and and construction supervision of 11 schools having 69.000 m ² closed area.
701	ANKARA SPECIAL PROVINCIAL ADMINISTRATION DIRECTORATE OF DEVELOPMENT AND HOUSING	CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION OF HEALTH, EDUCATION, YOUTH SPORT, REAL ESTATE INVESTMENTS TO BE CONSTRUCTED IN THE CENTRAL AND COUNTIES OF ANKARA, 2007	ANKARA SPECIAL PROVINCIAL ADMINISTRATION DIRECTORATE OF DEVELOPMENT AND HOUSING	THE CENTER & COUNTIES OF ANKARA	TURKEY	The project covers design and construction supervision of health centers, educational buildings; youth sport centers and real estate investments that are to be constructed in the center and counties of Ankara. Under the scope of this project, design and construction supervision of 24 Educational Buildings (Primary School, High School, Engineering College, etc) and 18 Health Centers were completed. Total Construction area of the project is approximately 127.000 m ² .
691	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	CONSULTANCY SERVICES FOR DESIGN AND SUPERVISION OF RETROFITTING WORKS OF 32 SCHOOL BUILDINGS AND ALSO FACILITIES IN THE 4TH GROUP PROVINCES	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	4th GROUP PROVINCES ANATOLIA, AYDIN, BURDUR, DENİZLİ, İSPARTA, KONYA, MUĞLA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
690	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	CONSULTANCY SERVICES FOR DESIGN AND SUPERVISION OF RETROFITTING WORKS OF 23 SCHOOL BUILDINGS AND ALSO FACILITIES IN THE 3RD GROUP PROVINCES	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION INVESTMENTS AND FACILITIES DEPARTMENT	3.GROUP PROVINCE-SAFYON, IZMIR, KUTAHYA, MANISA, USAK	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
689	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR PHYSICAL CONTRIBUTION TO EDUCATION PROJECT (EFIKAP) IN ERZURUM	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	ERZURUM	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period.
664	TURK TELECOM INC.	TURK TELECOM SCHOOLS ENGINEERING SERVICES	TURK TELECOM INC.	ANKARA	TURKEY	The project covers multi discipline basic design services.
661	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR DESIGN OF RETROFITTING OF 6 SCHOOLS	USAK NATIONAL EDUCATION DIRECTORATE	USAK	TURKEY	The project covers detail design services in reinforced concrete discipline. The project was completed in three stages; - Investigation, analysis, laboratory testing and reporting of the existing schools, having a total area of 40.000 m ² . - Preparation of retrofitting designs according to the approved reports and preparation of quantity surveys, cost estimations and technical specifications. - Technical consultancy services during the retrofitting works.
660	TURKISH REPUBLIC CENTRAL BANK	EDUCATION, CONGRESS, ARCHIVES AND SOCIAL COMPLEX DESIGN SERVICES	TURKISH REPUBLIC CENTRAL BANK	ANKARA	TURKEY	The project covers multi discipline detail design services and preparation of tender files of the social complex.
637	MEHMET ZORLU FOUNDATION	PRIMARY SCHOOL (32 CLASSROOMS) CONSTRUCTION SUPERVISION SERVICES	MEHMET ZORLU FOUNDATION	SERDIVAN SAKARYA	TURKEY	The project covers construction management and site supervision services during construction period.
635	ISDEMIR ISKENDERUN DEMIR VE CELIK FABRIKALARI A.S.	ISDEMIR SPORTS STADIUM IMPROVEMENT	ISDEMIR IRON AND STEEL PLANT	ISKENDERUN	TURKEY	The project covers multi discipline detail design services. A stadium having a capacity of 10.000 spectators with dimensions of 66,02 m x 18 m x 14,7 m, and a steel roof is designed in the scope of the modernization of ISDEMIR Stadium
622	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR THE SECONDARY EDUCATION PROJECT (EFIKAP 2) IN 4th GROUP CITIES (181.000m ²)	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	4th GROUP CITIES (BLACKSEA REGION)	TURKEY	The project covers multi discipline basic and detail design services and site supervision services during construction period. 4th Group Education Institutions are composed of 25 projects in 20 different cities. Total construction area: 181.000 m ² .
621	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR THE SECONDARY EDUCATION PROJECT (EFIKAP 2) IN 3rd GROUP CITIES (197.000m ²)	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	3rd GROUP CITIES (INNER ANATOLIA AND SOUTH EAST ANATOLIA REGIONS)	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period. 3rd Group Education Institutions are composed of 28 projects in 13 different cities. Total construction area: 197.000 m ² .
620	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR THE SECONDARY EDUCATION PROJECT (EFIKAP 2) IN 2nd GROUP CITIES (201.000m ²)	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	2nd GROUP CITIES (INNER ANATOLIA AND AEGEAN REGION)	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period. 2nd Group Education Institutions are composed of 23 projects in 16 different cities. Total construction area: 201.000 m ² .
619	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	CONSULTANCY SERVICES FOR THE SECONDARY EDUCATION PROJECT (EFIKAP 2) IN 1st GROUP CITIES (227.000m ²)	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	1st GROUP CITIES (MARMARA REGION)	TURKEY	The project covers multi discipline basic and detail design services and construction management and site supervision services during construction period. 1st Group Education Institutions are composed of 28 projects in 14 different cities. Total construction area: 227.000 m ² .
588	GOKKUSAGI EGITIM OGRETİM A.S.	USAK UFTADE HIGH SCHOOL CAMPUS (20000m ²) PROJECT	UFTADE COLLEGE	UŞAK	TURKEY	The project covers multi discipline basic design and detail design services.
544	ERDEMİR IRON AND STEEL PLANT	ERDEMİR SPORT HALL EXTENSION PROJECT	EKON A.S.	KARADENİZ EREĞLİ	TURKEY	The project covers basic and detail design services.
542	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	8 YEAR BASIC PRIMARY SCHOOLS PROJECT (66 SCHOOLS 400,000M ²) DESIGN AND CONSTRUCTION SUPERVISION SERVICES	REPUBLIC OF TURKEY MINISTRY OF NATIONAL EDUCATION	4th.GROUP CITIES NORTH ANATOLIA REGION	TURKEY	The project covers multi discipline basic and detail design services and site supervision services for 77 schools having 438.000 m ² area.
535	DILER HOLDING INC.	MUSTAFA YAZICI CULTURE CENTER EDUCATION AND RECREATION FACILITIES	DILER HOLDING INC.	ISKENDERUN	TURKEY	The project covers multi discipline basic design and detail design services.
498	CENTRAL BANK OF TURKEY	CENTRAL BANK ÇAYYOLU EDUCATIONAL, CONGRESS, GUEST HOUSE SPORTS AND RESTAURANT FACILITIES	MIDDLE EAST TECHNICAL UNIVERSITY	ÇAYYOLU ANKARA	TURKEY	The project covers multi discipline basic and detail design services and site supervision services for educational and congress hall, guest houses, sports facilities and restaurants having total area of 34.227 m ² .
456	MENSEL	ASKAABAT MOUNTAIN STADIUM	MENSEL	ASKAABAT	TURKMENISTAN	The project covers basic and detail design services in architectural and steel disciplines.
351	MIDDLE EAST TECHNICAL UNIVERSITY	METU CULTURE CENTER	MIDDLE EAST TECHNICAL UNIVERSITY	ANKARA	TURKEY	The project covers multi discipline basic design and detail design services for the culture center having 9500 m ² closed area.





Health



ÜMRANIYE PEDIATRIC AND MATERNITY HOSPITAL

İstanbul, TURKEY

Client:
İSTANBUL PROJECT
COORDINATION UNIT

The contract covers the Consultancy Services for Design and Construction/ Furnishing Supervision of 347 Bed Ümraniye Pediatric and Maternity Hospital (98.115 m²), Design of Pendik Vali Cahit Bayar District Polyclinic (Mehmet Oğuz District Polyclinic, 14.939 m²) and Design/Design Review of Küçükaly Nursery (Typical Design, 4.654 m²) and Kocamustafapaşa Social Center (1857 m²).

This will also lead to the Preparation Works of Bidding Documents for Construction Activities of 347 Bed Ümraniye Pediatric and Maternity Hospital, Pendik Vali Cahit Bayar District Polyclinic (Mehmet Oğuz District Polyclinic), Küçükaly Nursery (typical design) and Kocamustafapaşa Social Center and Preparation of Bidding Documents for the procurement of goods to furnish/equip Koşuyolu Pediatric Hospital in Istanbul.

Supervision Services during the Implementation of Works and Supplies Contracts will also be provided thus ensuring the high quality of the works to be undertaken for Ümraniye Pediatrics and Maternity Hospital in Istanbul.

PROKON provided the following services under the scope of this project:

- Engineering & Design Services
- Preparation of Tender Document related with the Construction Contract in accordance with the World Bank (IBRD) Guidelines & Standard Bidding documents.
- Supervision Services





Client:
TR MINISTRY OF HEALTH

SSK MATERNITY AND PEDIATRICS HOSPITAL AND OUTPATIENT CLINIC

Izmit, TURKEY

Following the severe earthquakes that occurred in the Marmara Region on August 17th and November 12th, 1999, the Government of Turkey (GOT) with the assistance of the European Investment Bank (EIB) has identified an Emergency Reconstruction Program in the affected areas. This is entitled the Turkey Infrastructure and Urban Reconstruction Project (TERRA-1) which includes the provision of a new Izmit SSK Maternity and Pediatrics Hospital and Outpatient Clinic.

Izmit, Ministry of Health, Maternity & Pediatrics Hospital consists of 200 beds, having an area of approximately 29.450 m² and Central Polyclinic has an area of 8.375 m².

The total construction area is approximately 37.825 m².

PROKON provided the following services under the scope of this project:

Preparation of Design & Tender Documents

- Preliminary Design & Medical Equipment Draft List & Room Settlement Plans Preparation.
- Construction & Detail Drawings & Contractor Contract Documents Preparation
- Preparation of Technical Specifications & Purchase Tender Documents of Medical Equipment, Medical Equipment Final List & Room Equipment Settlement Plans.
- Preparation of Final Furniture List, Room Settlement Plan, Technical Specification & Purchase Tender Documents of Furniture.
- Evaluation of Civil & Medical Equipment Contractor Contract
- Evaluation of Contractor Tenders & Signing of the Contract (Furniture)

Construction Supervision

- Construction Supervision
- Medical Equipment Supervision
- Furniture Supervision
- Defects Liability Period



KARTAL LUTFI KIRDAR HOSPITAL IN ISTANBUL (EIB-CB1.7)

Istanbul, TURKEY

Client:
İSTANBUL PROJECT
COORDINATION UNIT

The contract was signed between PROKON and Istanbul Project Coordination Unit for the consultancy services for construction supervision of Kartal Lütfi Kırdar Hospital that will be reconstructed under the scope of ISMEP (Istanbul Seismic Risk Mitigation and Emergency Preparedness Project) on 7th of September, 2012.

The consultancy services cover the design review and construction supervision of the hospital and polyclinics.

Istanbul Kartal Lütfi Kırdar Hospital Campus has the capacity of 920 beds in 250.000 m² built-up area (2B+G+12 Floor) of which 53.000 m² is underground parking area.





EAST ANATOLIA REGION, 6712 HOUSES AND 4 HOSPITALS WITH THE SOCIAL FACILITIES

12 Different Cities, TURKEY

Client:
REPUBLIC OF TURKEY,
HOUSING DEVELOPMENT
ADMINISTRATION OF TURKEY

T.R. Housing Development Administration of Turkey has decided the Construction of Houses, Hospitals and Social Facilities in order to satisfy the necessity in East Anatolia Region.

The Project covers 12 different cities: Ağrı, Ardahan, Bingöl, Elazığ, Erzincan, Erzurum, Hakkâri, Kars, Malatya, Muş, Tunceli, and Van.

The hospitals in the scope of the project are as follows:

- Ardahan State Hospital (150 Bed Capacity)
- Bingöl, Genç State Hospital (50 Bed Capacity) & public housing
- Kars, Sarıkamış State Hospital (50 Bed Capacity)
- Tunceli State Hospital (150 Bed Capacity)



The services provided by PROKON under the scope of the contract, that was signed in June 2009, are listed below:

Site Supervision Services

- Planning, Activity Monitoring & Control
- Contract Management
- Coordination & Management Services
- Cost Control
- Quality Control
- Reporting
- Certificate of Occupancy Monitoring
- Provisional and Final Acceptances



EAST ANATOLIA REGION AND EAST BLACK SEA REGION, 4614 HOUSES AND 8 HOSPITALS WITH THE SOCIAL FACILITIES

17 Different Cities, TURKEY

Client: REPUBLIC OF TURKEY, HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY

T.R. Housing Development Administration of Turkey has decided the Construction of Houses, Hospitals and Social Facilities in order to satisfy the necessity in East Anatolia Region and East Black Sea Region.

The Project covers 17 different cities: Ağrı, Ardahan, Artvin, Batman, Bingöl, Bitlis, Diyarbakır, Elazığ, Erzincan, Erzurum, Gümüşhane, Malatya, Mardin, Muş, Ordu, Rize and Van.

The services provided by PROKON in the scope of the contract, that was signed in July 2010, are listed below:

Site Supervision Services

- Planning, Activity Monitoring & Control
- Contract Management
- Coordination & Management Services
- Cost Control
- Quality Control
- Reporting
- Certificate of Occupancy Monitoring
- Provisional & Final Acceptances

The hospitals in the scope of the project are as follows:

- Ağrı Diyadin State Hospital (50 Beds Capacity) & Mass Housing
- Bingöl Hospital (200 Beds Capacity)
- Diyarbakır Bismil Hospital (100 Beds Capacity)
- Diyarbakır Bismil County, Tepe Town Hospital (18 Beds Capacity)
- Erzincan Tercan Hospital (50 Beds Capacity) & Mass Housing
- Gümüşhane Torul Hospital (10 Beds Capacity)
- Malatya Hospital (640 Beds Capacity)
- Muş State Hospital (300 Beds, 400 Patients Capacity)





TR MINISTRY OF HEALTH FIRST HEALTH PROJECT

Ankara, Diyarbakır, İstanbul, Mardin, Muğla, Sivas, Yozgat, TURKEY

Client: UNDP/OPS & TR MINISTRY OF HEALTH

Regarding the agreement between the United Nations (UNDP/OPS) and TR Ministry of Health, following projects were performed. The projects were financed by the World Bank. The following health structures were designed and constructed under Supervision of PROKON.

- Ankara-Polatlı 150 bed capacity State Hospital 11000 m²
- Ankara-Haymana 50 bed capacity State Hospital 8500 m²
- Muğla –Milas 100 bed capacity State Hospital 10000 m²
- Muğla-Fethiye 200 bed capacity State Hospital 14000 m²
- In 7 different cities (Diyarbakır, Mardin, Yozgat, Sivas, Ankara, İstanbul, Muğla), 38 Health Center



ERZINCAN EARTHQUAKE REHABILITATION AND RECONSTRUCTION PROJECT

Erzincan, TURKEY

Client:
TR PRIME MINISTRY
HOUSING DEVELOPMENT
ADMINISTRATION ERZINCAN
EARTHQUAKE REHABILITATION
AND RECONSTRUCTION
PROJECT, PROJECT
IMPLEMENTATION UNIT

Within the scope of Erzincan Earthquake Rehabilitation and Reconstruction Project, the Hospitals listed below were reconstructed instead of the Social Security (SSK), State & Military Hospitals which had collapsed due to severe Earthquake occurred on March 13th, 1992.

- 100 Bed capacity, SSK Hospital & Nursing Hostel (60 bed cap.) 9077 m²
- 150 Bed capacity, State Hospital & Nursing Hostel (30 bed cap.) 10179 m²
- 100 Bed capacity, Military Hospital & Heating Center 8735 m²

PROKON provided Design, Engineering, Tender File Preparation and Site Supervision Services of all hospital projects.



health references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
783	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	1760 FLATS, 300 BEDS CAPACITY HOSPITAL AND SOCIAL FACILITIES IN ANKARA	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	ANKARA	TURKEY	Construction management, site supervision and technical support services are provided during the project.
777	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT (PCU)	920 BEDS CAPACITY KARTAL LUTFI KIRDAR HOSPITAL IN ISTANBUL (250.000m2)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT (PCU)	KARTAL - ISTANBUL	TURKEY	Construction management, site supervision and technical support services are provided during the project.
751	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 4614 FLATS, 7 HOSPITALS AND SOCIAL FACILITIES IN EAST ANATOLIA, EAST BLACKSEA ANATOLIA DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	EAST ANATOLIA AND EAST BLACKSEA PROVINCES (17 CITIES)	TURKEY	The project covers site supervision services during construction and defects and liability period. The facilities in the scope of this project are as follows: - 4614 houses in 17 different cities - Ağrı Diyaradin State Hospital (50 Beds Capacity) and mass housing - Bingöl Hospital (200 Beds Capacity) - Diyarbakır Bismil Hospital (100 Beds Capacity) - Diyarbakır Bismil County, Tepe Town Hospital (18 Beds Capacity) - Erzincan Tercan Hospital (50 Beds Capacity) and mass housing - Gümüşhane Torul Hospital (10 Beds Capacity) - Malatya Hospital (640 Beds Capacity) - Muş State Hospital (300 Beds, 400 patients capacity)
740	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF 6712 FLATS, 4 HOSPITALS AND SOCIAL FACILITIES IN EAST ANATOLIA DURING CONSTRUCTION AND DEFECTS AND LIABILITY PERIODS	REPUBLIC OF TURKEY PRIME MINISTRY HOUSING DEVELOPMENT ADMINISTRATION OF TURKEY	EAST ANATOLIA PROVINCES (12 CITIES)	TURKEY	The project covers site supervision services during construction and defects and liability period. The facilities in the scope of this project are as follows: - 6712 houses in 12 cities - Ardahan State Hospital (150 Bed Capacity) - Bingöl, Genç State Hospital (50 Bed Capacity) and public housing - Kars, Sarıkamış State Hospital (50 Bed Capacity) - Tunceli State Hospital (150 Bed Capacity)
736	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION / FURNISHING SUPERVISION SERVICES OF ÜMRANIYE MATERNITY AND PEDIATRICS HOSPITAL (CB-1.4/C)	REPUBLIC OF TURKEY ISTANBUL SPECIAL PROVINCIAL ADMINISTRATION ISTANBUL PROJECT COORDINATION UNIT - WORLD BANK	ISTANBUL	TURKEY	The project covers the consultancy services in Design and Construction/ Furnishing Supervision of 327 Bed Ümraniye Pediatric and Maternity Hospital(96.960 m ²), Design of Pendik Vali Cahit Bayar District Polyclinic (Mehmet Oğuz District Polyclinic)(14.939 m ²) and design/design review of Küçükaly Nursery (typical design)(4.654 m ²) and Kocamustafapaşa Social Center (1857 m ²).
597	REPUBLIC OF TURKEY MINISTRY OF LABOR AND SOCIAL SECURITY TURKISH SOCIAL SECURITY INSTITUTION	TERRA-1 PROJECT IZMIT MATERNITY AND PEDIATRICS HOSPITAL AND OUTPATIENT CLINIC CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION SUPERVISION	REPUBLIC OF TURKEY MINISTRY OF LABOR AND SOCIAL SECURITY TURKISH SOCIAL SECURITY INSTITUTION	IZMIT	TURKEY	Izmit, Ministry of Health, Maternity & Pediatrics Hospital consists of 200 bed and approximately it has an area of 29450 m ² and central polyclinic has an area of 8375 m ² . Total construction area: 37.825 m ² . Services provided are described below: 1. Preparation of Design and Tender Documents 2. Construction Supervision
494	UNITED NATIONS	FIRST HEALTH PROJECT (4 HOSPITALS AND 38 HEALTH UNITS)	UNITED NATIONS DEVELOPMENT PROJECT PROJECT SERVICES UNIT	MUĞLA ANKARA ISTANBUL SIVAS TOKAT YOZGAT DIYARBAKIR MARDİN	TURKEY	Regarding the agreement between the United Nations (UNDP/OPS) and TR Ministry of Health, following projects were performed. The projects were financed by the World Bank. • Ankara-Polatlı 150 bed capacity State Hospital 11000 m2 • Ankara-Haymana 50 bed capacity State Hospital 8500 m2 • Muğla –Milas 100 bed capacity State Hospital 10000 m2 • Muğla-Fethiye 200 bed capacity State Hospital 14000 m2 • In 7different cities (Diyarbakır, Mardin, Yozgat, Sivas, Ankara, İstanbul, Muğla), 38 Health Center, were constructed. Prokon provided consultancy services, engineering and inspection services in the construction of the hospitals and health centers with respect to FIDIC rules.
369	REPUBLIC OF TURKEY PRIME MINISTRY PROJECT IMPLEMENTATION UNIT	ERZINCAN EARTHQUAKE REHABILITATION AND RECONSTRUCTION PROJECT, STATE(150 BEDS), MILITARY(100 BEDS) AND SOCIAL SECURITY HOSPITALS(100 BEDS) DESIGN, PREPARATION OF TENDER DOCUMENTS AND CONSTRUCTION SUPERVISION SERVICES (WORLD BANK PROJECT)	REPUBLIC OF TURKEY PRIME MINISTRY PROJECT IMPLEMENTATION UNIT	ERZINCAN	TURKEY	Listed below the reconstructed Social Security (SSK), State & Military Hospitals which had collapsed due to severe Earthquake occurred on March 13, 1992. • 100 Bed capacity, SSK Hospital and Nursing Hostel (60 bed cap.) 9077 m2 • 150 Bed capacity, State Hospital and Nursing Hostel (30 bed cap.) 10179 m2 • 100 Bed capacity, Military Hospital and Heating Center 8735 m2 The project was financed by the World Bank. Medical equipment and furniture installation of all three hospitals were provided. Services provided are described below: - Design and Engineering Services: - Tender File Preparation - Site Inspection Services



transportation &



Transportation & Infrastructure

& infrastructure



SAMSUN AYVACIK EYNEL STEEL BRIDGE

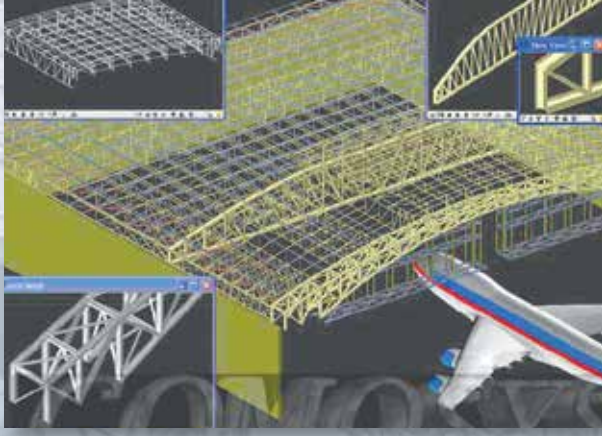
Samsun, TURKEY

Client: SAMSUN AYVACIK VILLAGE SERVICES UNION

In 2007, Samsun Special Provincial Administration, Samsun Ayvacik Village Services Union made a decision about a bridge over the dam lake in order to reach to the villages that the dam water separated. The Consultancy and Supervision Services of Ayvacik Eynel Steel Bridge was performed by PROKON after the signing of the contract in 04.05.2007.

Ayvacik Eynel Bridge is in the arch form of a reverse chain curve with a 216m opening. The arch was designed as a 3 division box section with dimensions of 8x2,4m and flat parts with 5% slope were formed by ST52 steel plates and profiles. All flat parts and parts that were exposed to vehicle loads on the bridge were made by composite reinforced concrete plates. The width of the bridge reaches 12 m along with the pavement.





AIRBUS A 380 HANGARS STEEL ROOF PROJECT

Dubai, UNITED ARAB EMIRATES

Client: TAV İNŞAAT, TURİZM, İŞLETME VE DANIŞMANLIK A.Ş. / DUBAI BRANCH

The Engineering Services of Airbus A 380 Hangar Project were provided by PROKON under the scope of the contract between TAV and Emirates Airlines. The project covers Basic and Detail Design of the steel roof for the Maintenance Hangars of the World's Largest Passenger Aircraft A 380, designed by Airbus. Each hangar has the approximate volume of 108m x 100m x 30m.

The points makes the project different from other ordinary designs are;

- Being composed of 7000 bar elements & 800 different load combinations,
- Mounting difficulties due to the extreme temperature differences in manufacture & erection sites,
- The use of HISTAR steel with very high strength.
- Thousands of loads, each calculated according to the 800 different load combinations,
- All nodes being "Slip Critical - Friction Grip", Detailed Erection Engineering Service which may be the first in Turkey,
- Preparation of special video showing the practicability of erection works,
- Giving a reverse deflection to a truss having 108m opening (Mega Truss) & Preparation of the Shop Drawings accordingly, Preparation of Specific Engineering Calculations for the truss having four-story building height starting from pre-erection works to the Final Erection Stage,
- Extraordinary & specific solution of lifting & placement problems of an arch having 108 m opening (Facade Arch) which was complicated as a bridge itself,
- Considering the scenario of the cracking of the concrete over time which lies under the hangars,
- Transportation problems & occurring of difficult "brand" geometries due to the geometry of the structure,

Each Hangars, weighing approximately 1800 tons, (including the Erection Engineering) were performed by the COMOSYS software that was developed by PROYA Yazılım ve Ticaret A.Ş., a member of PROKON-EKON Group of Companies.



ANKARA METRO PROJECT - 3RD STAGE

Ankara, TURKEY

Client: T.R. ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE



PROKON provided Engineering and Supervision Services for Ankara Metro 3rd Stage Project. This project connects 15,36 km long Batıkent-Sincan Stations and 3,11 km long Kızılay-Söğütözü Stations. Double-Track Rail System is constructed together with 5 pieces Level Crossing, 2 pieces Viaduct, 2 pieces Buried and 3 pieces Deep Buried Stations. The route is built with different types of line structures; 6,84 km. long Cut & Cover Line, 1,63 km long Cutting, 1,82 km long Level Crossing, 0,62 km long Elevated, 4,12 km long Tunnel, 2,03 km long Viaduct and 1,68 km long Station Line. The tunnels were performed with Cut & Cover and TBM Tunneling System.



Properties of the system is as follows:

- Distance Between Stations : 1255 m
- Average Speed : 40 km/hour
- Maximum Speed : 80 km/hour
- Daily Operation Time : 18 hours
- Queue Interval : 90 seconds
- Batıkent-Sincan Circulation Time : 22 minutes

Services within the scope of the project are listed below;

Design Services
Supervision Services





AŞTİ - ÇAYYOLU METRO PROJECT PHASE 1

Ankara, TURKEY

Client: T.R. ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE

PROKON provided engineering and supervision services for 1st Phase AŞTİ-Çayyolu Metro Line Project.

Ankara Metro, 1st Phase AŞTİ-Çayyolu Rail Transport System connects AŞTİ and Köy Hizmetleri Stations with a 5575 m long line and Köy Hizmetleri and Ümitköy Stations with 3815 m long line. The double-track railway line was constructed together with 7 underground stations. The line was constructed in different type of track ways; 0,140 km long At-Grade line, 0,070 km long Cut Line, 5,955 km long Cut & Cover Line, 1,945 km long Tunnel, 1,28 km long 7 Station Lines. The tunnels have been constructed in Cut & Cover and TBM Tunneling Methods. The total closed area of 7 underground stations is 55.000 m².

Services within the scope of the project are listed below;

Design Services

- Preparation of Updated Feasibility Report
- Preparation of Final Design of Track ways
- Coordination, Review & Approval of
 - Architectural & Landscaping ,
 - Reinforced Concrete Bearing System
 - Mechanical Works (HVAC, Plumbing & Firefighting System)
 - Electrical Works (Power, Lighting, Grounding)

Construction Management

- Contract Management
- Quality Control / Quality Assurance
- Cost Control , Management of Change Orders
- Planning & Program Control
- Occupational Health & Safety





TANDOĞAN – KEÇİÖREN METRO PROJECT

Ankara, TURKEY

Client:
T.R. ANKARA METROPOLITAN
MUNICIPALITY EGO
GENERAL DIRECTORATE

PROKON provided Engineering and Construction Supervision Services for Ankara Tandoğan-Keçiören Metro Line Project.

Ankara Metro, Tandoğan-Keçiören Rail Transport System connects Tandoğan and Keçiören Stations with a 10,59 km long line. The double-track railway line has been constructed together with 9 underground stations. The line was constructed in different type of track ways; 7,23 km long Tunnel, 0,684 km long Cut & Cover line, 1,26 km long Station Lines. The tunnels were constructed in Cut & Cover and TBM Tunneling Methods.

Services within the scope of the project are listed below;

Design Services

- Revision of Metro Lines
 - Revision of Existing Travelling Estimations
 - Determination of Commissioning Scenarios for the Entire Project
 - Determination of Fleet According to the Travelling Estimation & Train Frequency
- Preparation of Tender Documents for Construction Works
- Project Coordination, Review & Approval
 - Architectural & Landscaping,
 - Reinforced Concrete Bearing System
 - Mechanical Works (Heating, Ventilating, AC, Plumbing & Firefighting System)
 - Electrical Works (Power, Lighting, Grounding)

Construction Management

- Contract Management
- Quality Control / Quality Assurance
- Cost Control, Management of Change Orders
- Planning & Program Control
- Occupational Health & Safety





BURSA LIGHT RAIL SYSTEM PROJECT

Bursa, TURKEY

Client: T.R. BURSA METROPOLITAN MUNICIPALITY BURSA RAY PROJECT COORDINATION UNIT

The scope of the work is to perform the Infrastructure, Civil, Architectural and Mechanical Design Works of the fields and units for the Light Rail System Operation and Maintenance Services to be performed.

The following units were designed by PROKON under the scope of the project:

Design Services

- Operation & Maintenance Center (approximately 240.000 m² area);
 - General Facility Settlement Plan,
 - Site Storm Water Drainage System,
 - Sewer System,
 - Utility Water System,
 - Site Fire Hydrant System,
 - Pressurized Air Installation System,
 - Protection Walls, Platforms, Electricity & Installation Canals,
 - Natural Gas Pipe Line Drawings
- Maintenance & Repair Warehouse
- Administration Building,
- Paint Warehouse,
- Heating Center,
- Transformer Building
- Security Building,
- Binelli Konutlar Station,
- Vehicle Washing Unit



ANTALYA 1st STAGE RAIL SYSTEM PROJECT

Antalya, TURKEY

Client:
T.R. ANTALYA METROPOLITAN
MUNICIPALITY

Light Rail System, lying on Fatih-Bus Station-Square line, has the main line length of 11,5 km. The project covers Supervision Services of Construction and Electromechanical Works. It has two stages:

1st Stage: Pre-Construction Consultancy Services,

- Inspection of the Designs
- Inspection of the Construction Works Tender Documents
- Technical Support to the Client during the Tender Evaluation Stage

2nd Stage: Construction Stage Consultancy Services

PROKON provided the following services;

Design Review Services

- Project Coordination, Review & Approval;
 - Architecture & Landscape,
 - R.C. Support System,
 - Mechanical Works (Heating, Ventilation, Air-conditioning, Plumbing & Firefighting)
 - Electrical Works (Power, Lighting, Grounding)
- Review of Tender Documents
- Helping the Client during Tender Evaluation Stage

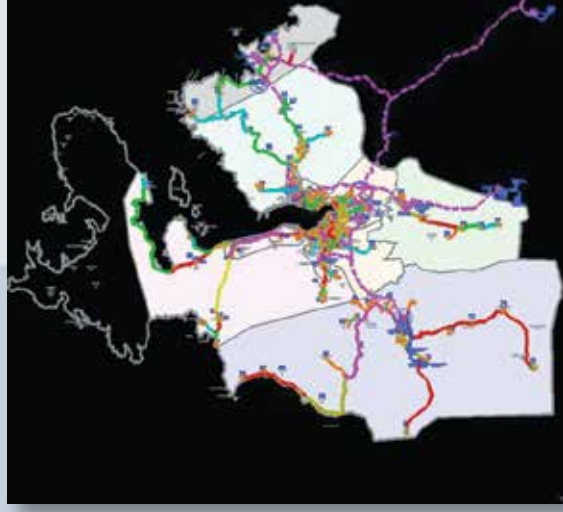
Supervision Services

- Contract Management
- Quality Control / Quality Assurance
- Cost Control, Change Management Instructions
- Planning & Program Control
- Occupational Health & Safety
- Public Presentations

The following works are to be done mainly on 11.5 km line;

- 9,32 Km. Level Crossing Line,
- 1,63 Km. Cut-Fill Line,
- 0,15 Km. Underground Station Structure (Bus Station - Çallı Stations),
- 0,41 Km. Underground Station Underpass Connection,
- 0,45 Km. Road Underpass,
- 0,44 Km. Road Approach Tunnel
- Infrastructure Transposition Works
- 14 Level Crossing Stations,
- Warehouse & Storage Field,
- Storage Field & Support Buildings,
- Transformer Buildings,
- Power Supply & Electrification System,
- Signaling System,
- Communication & Control System,
- Supply & Installation of Maintenance Equipment,
- Operation & Maintenance Support & Control,
- Vehicle Supply (14 units) & Commissioning ,
- Electromechanical Works Spare Parts (2 Years),
- Vehicle Spare Parts (2 Years),
- Vehicle Special Equipment





İZMİR LICENSE ZONE NATURAL GAS DISTRIBUTION WORKS

İzmir, TURKEY

Client:
İZMİRGAZ ŞEHİR İÇİ DOĞALGAZ
DAĞITIM TİC. VE TAAH. A.Ş.

The Design, Engineering and Construction Supervision Services of İzmir License Zone Natural Gas Distribution works were provided by PROKON.

The following services were within the scope of the project:

- Preparation for Design & Construction Drawings of all steel pipelines
 - 438.895m Intermediate Pressure (12-19 Bar) Steel Distribution Line (Route Determination, Design, Cathodic Protection Drawings Preparation, Preparation of Materials Lists)
- Preparation for Design & Construction Drawings of all PE (Polyethylene) lines,
 - 7.827.457m Low Pressure PE Distribution Line (Route Determination, Design, Cathodic Protection Drawings Preparation, Preparation of Materials Lists)
- Preparation for Design & Construction Drawings of High Pressure Lines
 - Field Works, Route Determination, Design, Ground Investigation, Expropriation Documents Preparation, Cathodic Protection Drawings Preparation of 11.703m 36", 7.764m 32", 40.150m 30", 99.000m 8"-12" High Pressure Lines
- Preparation for Design & Construction Drawings of RMS-A (12) , RMS-B (approximately 560) Stations & Stations for Industrial Consumptions (PI Diagrams, Mechanical, Electrical & Automation Design)
- Preparation of Scada Specifications & Drawings
- Supply, Update & Digitizing of all the Maps in İzmir License Zone.
- Building Surveys for Houses & Industrial Facilities of the Whole City and Calculation of TAKS & KAKS Values in the Zoning Plan.
- Construction Supervision Services





EGO GÖLBAŞI NATURAL GAS PRESSURE REDUCING STATIONS AND PIPE LINES

Ankara, TURKEY

Client:
ANKARA METROPOLITAN
MUNICIPALITY

The Consultancy and Construction Supervision Services for Gölbaşı Natural Gas Pressure Reducing Stations and Pipe Lines were provided by PROKON.

The second natural gas supply point was planned with an RMS-A Type Station (Pressure Reducing and Measurement Station) near Gölbaşı considering the Urban Development and Natural Gas Consumption of Ankara in the year 2025. The capacity of the 2nd RMS station was 600.000 m³/h, which was also designed as allowing a capacity increase up to 1.000.000 m³/h. The Natural Gas was carried from station to Doğukent District by steel pipes. The distribution was performed by a B Type RMS Station with a capacity of 250.000 m³/h on that district. The total pipeline length was approximately 50 km. The gas pressure on RMS-A station outlets were considered to be 40 Bar, rather than 19-20 Bar Operation Pressure.



transportation & infrastructure references

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
817	MINZE ENERGY	KIRKLARELI GAS	MINZE ENERGY	KIRKLARELI	TURKEY	The project covers basic design and detail design services in infrastructure discipline. Construction management service is also provided during the construction period.
799	ISTANBUL METROPOLITAN MUNICIPALITY	KARTAL KAYNARCA METRO LINE - CONSTRUCTION AND ELECTROMECHANICAL WORKS	ISTANBUL METROPOLITAN MUNICIPALITY	ISTANBUL	TURKEY	The project covers multi discipline detail design services. Site supervision and technical support services are also provided during the construction period.
796	ATLAS ENERGY	ISKENDERUN THERMAL POWER PLANT - RMS-A ENGINEERING SERVICES	ATLAS ENERGY	ISKENDERUN	TURKEY	The project covers multi discipline detail design services. Site supervision is also provided during the construction period.
794	ENERJISA POWER GENERATION COMPANY	YAMANLI II WEIR AND HEPP PROJECT 2nd STAGE AQUEDUCT	NTF CONSTRUCTION CO.	ADANA	TURKEY	Multi discipline detail design services are provided in reinforces concrete and steel discipline.
746	IZMIR GAZ	IZMIR NATURAL GAS DISTRIBUTION SYSTEM AS-BUILT PROJECTS	IZMIR GAZ	IZMIR	TURKEY	The project covers infrastructural detail design services.
710	SAMSUN IL OZEL IDARESİ ALT YAPI DAİRE BASKANLIĞI	CONSULTANCY SERVICES FOR CONSTRUCTION OF AYVACIK EYNEL-ORENCIK SUSPENSION BRIDGE	SAMSUN AYVACIK KOYLERE HİZMET GOTURME BİRLİĞİ	AYANCIK SAMSUN	TURKEY	The project covers engineering design review and site supervision services during construction period. Ayvacik Eynel Bridge is in the arch form of a reverse chain curve with a 216m opening. The arch was designed as a 3 division box section with dimensions of 8x2.4m and flat parts with 5% slope were formed by ST52 steel plates and profiles. All flat parts and parts that were exposed to vehicle loads on the bridge were made by composite reinforced concrete plates. The width of the bridge reaches 12 m along with the pavement.
704	REPUBLIC OF TURKEY ANTALYA METROPOLITAN MUNICIPALITY	ANTALYA LIGHT RAIL SYSTEM CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION FOR PHASE 1	REPUBLIC OF TURKEY ANTALYA METROPOLITAN MUNICIPALITY	ANTALYA	TURKEY	The project covers site supervision services during construction period. Light Rail System, lying on Fatih-Bus Station-Square line, has the main line length of 11,5 km. The project consist supervision services in construction and electromechanical works. It has two stages: - 1 st Stage: Pre-Construction Consultancy Services - 2 nd Stage: Construction Stage Consultancy Services The following structures are mainly on 11.5 km line; • 9,32 Km. level crossing line, • 1,63 Km. Cut-Fill line, • 0,15 Km. Underground Station structure (Bus Station - Çallı Stations), • 0,41 Km. Underground Station Underpass connection, • 0,45 Km. Road Underpass, • 0,44 Km. Road Approach Tunnel • Infrastructure transposition works • 14 Level Crossing Stations
699	ASKI ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	CONNECTION ROAD BETWEEN TED ANKARA COLLEGE - KIZILCAR HIGHWAY (YASLIPI-NARI CATCHMENT) DESIGN PROJECT	ASKI ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	İNCEK GOLBASİ ANKARA	TURKEY	The project covers basic design and detail design services in architectural, reinforced concrete disciplines.
682	ASKI ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	CONNECTION ROAD BETWEEN İNCEK - GOLBASİ (HAYMANA ROAD) DESIGN PROJECT	ASKI ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	İNCEK GOLBASİ ANKARA	TURKEY	The project covers basic design and detail design services in architectural and reinforced concrete disciplines.
674	IZMIR GAZ	IZMIR NATURAL GAS PIPING AND DISTRIBUTION LINES CONSULTANCY SERVICES	IZMIR GAZ	IZMIR	TURKEY	The design, engineering and construction supervision services in İzmir License Zone Natural Gas Distribution works were implemented by PROKON Mühendislik ve Müşavirlik A.Ş. Following services were provided; -Construction supervision of all steel pipelines (438.895 m intermediate pressure (12-19 Bar) steel distribution line) -Construction supervision of all PE (Polyethylene) lines (7.827.457 m low pressure PE distribution line) -Construction supervision of high pressure lines

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PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
667	KAYSERİ SEKER FABRİKASI A.Ş.	BOGAZLIYAN SUGAR FACTORY CONNECTION ROAD DESIGN PROJECT	EKON A.Ş.	BOGAZLIYAN KAYSERİ	TURKEY	The project covers basic design and detail design services in infrastructure discipline.
658	İZMİR GAZ	İZMİR NATURAL GAS PIPING AND DISTRIBUTION LINES ENGINEERING AND DESIGN SERVICES	İZMİR GAZ	İZMİR	TURKEY	The design, engineering and construction supervision services in İzmir License Zone Natural Gas Distribution works were implemented by PROKON Mühendislik ve Müşavirlik A.Ş. The following services were within the scope of the project: -Design and Construction Drawings preparation of all steel pipelines • 438.895m intermediate pressure (12-19 Bar) steel distribution line (route determination, design, cathodic protection drawings preparation, preparation of materials lists) -Design and Construction Drawings preparation of all PE (Polyethylene) lines, • 7.827.457m low pressure PE distribution line (route determination, design, cathodic protection drawings preparation, preparation of materials lists) -Design and Construction Drawings preparation of high pressure lines • To supply the city's needs, field works, route determination, design, ground investigation, expropriation documents preparation, cathodic protection drawings preparation of 11.703m 36", 7.764m 32", 40.150m 30", 99.000m 8"-12" high pressure lines
655	ASKİ ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	CONSULTANCY SERVICES FOR DESIGN OF ATATÜRK ORMAN ÇİFTLİĞİ CROSSING	ASKİ ANKARA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ	ANKARA	TURKEY	The project covers multi discipline basic design and detail design services for 3572 m 2x2 separated road, 1 crossing with bridge, 2117 m of infrastructure line.
628	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA METRO ÜMITKÖY-ÇAYYOLU LINE 2nd PHASE; ÇAYYOLU 1-ÇAYYOLU 2 STATIONS AND TRUCK STORAGE WITH MAINTENANCE AREA CONSTRUCTION CONSULTANCY AND ENGINEERING SERVICES	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ÇAYYOLU ÜMITKÖY ANKARA	TURKEY	The project covers consultancy services for Ümitköy - Çayyolu Line, Çayyolu 1 and Çayyolu 2 stations and truck storage with maintenance area.
614	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA METRO ULUS-KECİÖREN METRO LINE CONSULTANCY AND SUPERVISION SERVICES	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ULUS - KEÇİÖREN ANKARA	TURKEY	The project covers site supervision services during construction period for Tandoğan - Keçiören Line.
613	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA METRO 3rd PHASE KIZILAY-SOĞUTOZU METRO LINE CONSULTANCY AND SUPERVISION SERVICES	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	KIZILAY-SOĞUTOZU ANKARA	TURKEY	The project covers site supervision services during construction period. Ankara Metro Project connects 15,36 km long Batıkent-Sincan Stations and 3,11 km long Kızılay-Söğütözü Stations. Double-track rail system is constructed together with 5 pieces level crossing, 2 pieces viaduct, 2 pieces buried and 3 pieces deep buried stations. The route is built with different types of line structures; 6,84 km. long cut&cover line, 1,63 km long cutting, 1,82 km long level crossing, 0,62 km long elevated, 4,12 km long tunnel, 2,03 km long viaduct and 1,68 km long station line. The tunnels were performed with cut&cover and TBM Tunneling system.
612	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA METRO 3rd PHASE ASTI - ÇAYYOLU METRO LINE CONSULTANCY AND SUPERVISION SERVICES	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ASTI - ÇAYYOLU ANKARA	TURKEY	The project covers site supervision services during construction period for 140 m road crossing, 70 m retained cut, 5955 m cut-off tunnel, 1945 m bored tunnel and 7 stations having 55000 m2 closed area.

PROJECT NO	OWNER	DESCRIPTION	CLIENT	PLACE	COUNTRY	SCOPE OF SERVICES
598	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	ANKARA METRO 3rd PHASE BATIKENT - SINCAN (TOREKENT) METRO LINE CONSULTANCY SERVICES FOR CON- STRUCTION SUPERVISION	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	Batikent - Sincan (Törekent) ANKARA	TURKEY	Ankara Metro Project connects 15,36 km long Batikent-Sincan Stations and 3,11 km long Kızılay-Söğütözü Stations. Double-track rail system is constructed together with 5 qty level crossing, 2 qty. viaduct, 2 qty. buried and 3 qty. deep buried stations. The route is built with different types of line structures; 6,84 km. long cut&cover line, 1,63 km long cutting, 1,82 km long level crossing, 0,62 km long elevated, 4,12 km long tunnel, 2,03 km long viaduct and 1,68 km long station line. The tunnels were performed with cut&cover and TBM Tunneling system. Properties of the system is as follows: Distance between stations:1255 m Average speed: 40 km/hour Maximum speed: 80 km/hour Daily operation time: 18 hours Queue interval: 90 seconds Batikent-Sincan Round time: 22 minutes Type of Services provided; -Design Services -Supervision Services
579	BOTAS	NATURAL GAS PIPING (600000 m3/h RMS-A) WITH DISTRIBUTION RMS-B PROJECT	REPUBLIC OF TURKEY ANKARA METROPOLITAN MUNICIPALITY EGO GENERAL DIRECTORATE	GOLBAŞI ANKARA	TURKEY	A second natural gas supply point was planned with an RMS-A type Station (Pressure Reducing and Measurement Station) near Gölbaşı. The capacity of the 2nd RMS station was 600.000m3/h, which was also designed as allowing a capacity increase up to 1.000.000m3/h. The Natural Gas was carried from station to Doğukent District by steel pipes. The distribution was performed by a B type RMS station with a capacity of 250.000m3/h on that district. The total pipeline length was approximately 50 km. The gas pressure on RMS-A station outlets were considered to be 40 Bar operation pressure.
509	BURSA METROPOLITAN MUNICIPALITY	BURSA LIGHT RAIL SYSTEM ENGINEERING DESIGN SERVICES	GURIS INC.	BURSA	TURKEY	The project covers multi discipline basic design and detail design services.
502	REPUBLIC OF TURKEY ISTANBUL METROPOLITAN MUNICIPALITY	ISTANBUL METRO UNKAPANI - TAKSİM METRO LINE METROSU GOLDEN HORN BRIDGE	ANADOLU METRO JOINT VENTURE	ISTANBUL	TURKEY	The project covers multi discipline basic design and detail design services.

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