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KEY REFERENCES

**BUILDINGS and
SPECIAL STRUCTURES**



Construction Supervision
Construction Management
Commissioning
Start-up Inspections
Project Management

606,169 sqm



At Provinces :
Afyon, Antalya, Burdur, Isparta

HOSPITALS

Antalya Alanya - 300 Bed
Antalya Serik - 100 Bed
Antalya Korkuteli -100 Bed
Antalya Manavgat -100 Bed
Antalya Gazipasa - 75 Bed
Antalya Kemer - 50 Bed
Afyon - 250 Bed
Afyon Dinar - 100 Bed
Antalya Elmalı - 40 Bed
Burdur Gölhisar - 50 Bed
Burdur Bucak - 150 Bed

HOUSINGS

Antalya - 864
Burdur - 192
Afyon - 432
Isparta - 52

SCHOOLS and SOCIAL FACILITIES

Afyon Sports Complex
Afyon Museum and Culture Complex
Burdur Toki YK Beyatli School
Afyon Erkmen School
Isparta Sütcüler High School
Antalya Kepez Social Facility



As-Built Documentation
Detailed Engineering
Tender Evaluation
Tender Documentation
Construction Specifications
Geotechnical Studies
Basic Engineering
Topographical Surveys

880,000 sqm



Istanbul Technopark Area
Total Land Area : 2,500,000 sqm

Phase 1,2,3,4 Facilities
Total Const. Area : 880,000 sqm

Parks & Green Areas (1,600,000 sqm)

Pedestrian Walkways (76,000 sqm)

Internal Roads (101,578 sqm)

Parking Areas (25,000 sqm)

Improv. of Streams (28,000 sqm)

Heating Galleries (4,600 m)

Waste Water Network (5,200 m)

Storm Water Network (7,000 m)

Water Networks (6,100 m)

Irrigation Network (1,600 m)

Water Treatment Plant

Waste Water Treatment Plant

Natural Gas Pipeline and Network

Power Supply and Network

Telephone & Internet Network

Topographical Studies

Geotechnical Studies



Construction Supervision
Construction Management
Commissioning
Start-up Inspections
Project Management

979,719 sqm
8,039 Housing
17 Social Facility



At Provinces :
Ankara, Kirikkale, Kayseri, Karaman, Eskisehir

HOUSING

Ankara, Aktas : 442
Ankara, Bala : 741
Ankara, Orencik 6 : 744
Ankara, Orencik 7 : 756
Ankara, Haymana : 198
Ankara, Kuscagiz : 440
Ankara, Gaziler : 24
Ankara, Mamak : 1176
Ankara, Yatikmusluk 3 : 424
Ankara, Erlen : 440
Ankara, Gultepe : 664
Eskisehir : 928
Karaman, Sariveliler : 96
Kirikkale, Celebi : 96
Kayseri, Develi : 162
Kayseri, Bahcesaray 2 : 580
Kayseri, Yesilhisar : 128

SOCIAL FACILITY

Shopping Center : 6
Social Facility : 2
Police Station : 1
Mosque : 4
School : 4



Tender Documentation
Construction Supervision
Commissioning
Start-up Inspections

21,000 sqm



Sports Complex (16,300 sqm)
Indoor Sports Halls (2x1,400 sqm)
Indoor, Outdoor Pools (1,790 sqm)
Children Swimming Pools
Circulation Terrace (1,700 sqm)
College Street (2,515 sqm)
6 Tennis Court (3.870 sqm)
Trainer, Referee, Doctor Rooms
Workshops, Sauna, Massage Rooms
Undressing, Shower, WC Areas
Dancing, Gymnastics Studios
Exhibition, Fast Food Areas
Landscaping (13,750 sqm)

Social & Sports Complex (4,790 sqm)
Indoor, Outdoor Pools (1,060 sqm)
Circulation Terraces (2,630 sqm)
Private Dining Hall (310 sqm)
Restaurant (405 sqm)
Childrens Playing Room (90 sqm)
Children Swimming Pools
Office, Hairdresser, 2 Sauna
Ceremony Area (1,860 sqm)
Aerobics, Cardio and Lifting Halls
Undressing, Shower, WC Areas
2 Snack Bar, Business Hall
3 Tennis Court, Basketball Fields
Landscaping (4,380 sqm)



As-Built Documentation
 Detailed Engineering
 Construction Supervision
 Construction Specifications
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 Start-up Inspections
 Geophysical Studies
 Geotechnical Studies
 Topographical Surveys

1,384,000 sqm



8,700 Spectator Tribune (39,000 sqm)
Directorate Building (3,250 sqm)
Service Bldg. for Grooms (3,555 sqm)
840 ea Individual Stable (8,316 sqm)
1,900 m x 15 m Exercise Sand Track
2x8 and 2x12 Starting Box Machines
Exercise Paddock (2x440 mx10 m)
Doping Control Building (300 sqm)
Racehorse Hospital (726 sqm)
2,200 m x 30 m Grass Track
2,055 m x 20 m Sand Track
Ambulance Road and Underpass
Horse and Foal Manage Roads
Parking Lot for 2,467 Vehicles
2 x Helicopter Landing Platform
2,500 cum Irrigation Water Depot
300 cum Clean Water Depot
Horse Saddle Boxes (320 m2)
192 ea Ecurie Stable (3,880 sqm)
Horse Shoeing Building (120 sqm)
Three Phased Platform for Horses
5 each Guard House (100 sqm)
4 each Main Entrance (480 sqm)
Transformer Stations (3600 KVA)
2,000 kVA Generator
Infrastructure Facilities



**World Bank
Financed**

490,000 sqm

- Detailed Engineering
- Cost Estimations
- Tender Documentation
- Construction Supervision
- Construction Specifications
- Geophysical Studies
- Geotechnical Studies
- Project Management
- Basic Engineering
- Topographical Surveys

PROVINCES

- | | |
|-----------|------------|
| Afyon | Isparta |
| Antalya | Istanbul |
| Aydin | Izmir |
| Balikesir | Kirklareli |
| Bilecik | Kocaeli |
| Burdur | Kutahya |
| Bursa | Manisa |
| Canakkale | Mugla |
| Denizli | Tekirdag |
| Edirne | Usak |
| Eskisehir | Yalova |

- 100,000 sqm Additional Buildings at 72 School
- 390,000 sqm Restoration Works at 270 School
- Geotechnical Investigations at 253 School
- Construction of 24 New Primary School (2,832 sqm)
- 25 km Water and 26 km Sewage Network at 115 School
- Construction of 43 New Special Education School (81,700 sqm)
- Strengthening and Restoration Works at 76 School (139,777 sqm)
- Earthquake Investigations and Risk Analysis Reports at 186 School
- Asbuilts, Core Samples, R/F Scanning at 186 School (377,367 sqm)
- Design and Construction Supervision According to World Bank Principals**





**Construction Supervision
Construction Management
Commissioning
Start-up Inspections**

227,884 sqm



Main Building

**Main Entrance, Prisoner Acceptance
Closed Interview, Doctor Rooms, Barber
Tailor, Mess Hall, Kitchen, Cold Stores
Warehouses, Administrative Offices
Main Corridors, Control Rooms
Prisoner Rooms, Courtyards
Internal Gardens, Multipurpose Hall
Stage, Workshops, Classrooms
Nursery, Infirmary, Open Interview**

**Visitors Building, 2 x Football Field
Landscaping and Paved Areas
Guard Towers, Wall and Wire Fence
Perimeter Security Road**

**HVAC Capacity (480,000 kcal/h)
460 kVA Static UPS
Tempest Security
Voice, TV and CCTV Systems
Access Control and Security Systems
(Card, Eye Biometry, Fingerprint)
X-Ray Baggage and Control System**



Detailed Engineering
Feasibility Study
Tender Evaluation
Tender Documentation
Construction Specifications
Geotechnical Studies
Topographical Surveys
Construction Supervision
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70,000 sqm

Heavy and Daily Maintenance Workshops
and Car Washing Facility (5,700 sqm)
Administration Building (2,600 sqm)
Transformer Rectifier Building (300 sqm)
Parking Area for 50 Railway Car
Depot Lines (3,200 m)





Detailed Engineering
Cost Estimations
Tender Documentation
Construction Specifications
Geotechnical Studies
Topographical Surveys

11,000 sqm



**Culture and Sports Complex (11,000 sqm)
for 10,000 Person**

**Reinforced Concrete Structure
Steel Roof**

**Meeting Room, Cafeteria, Restaurant
Movie Theater, Infirmary
Shopping Center**

Ice Skating Track (1,000 sqm)

Walkways (7,500 sqm)

Open Sports Area, Grass (6,100 sqm)

Open Sports Area, Paved (3,300 sqm)

Race Track (800 sqm)

Gardens (5,100 sqm)

Paved Areas (34,500 sqm)

Asphalt Parking Lots (5,700 sqm)

1,250 KVA Transformer

1,100 KVA Generator

80 KVA UPS

Sewage Network (12,000 m)

Potable Water Network (11,000 m)

Wastewater Treatment Plant



Detailed Engineering
Cost Estimations
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8,220 sqm



Aircraft Hangar (5,641 sqm)
Reinforced Concrete, Steel Roof
24 m Height
Ground Floor

Administrative Sections
Rest Rooms, WC & Showers
Warehouse and Workshops
Electrical and UPS Room
Filter Washing Room
Security, Heating Room
First Floor
Mechanical Room

Cooling Capacity (89 KW)
Heating Capacity (3,000 KW)
Access Control Systems
1,250 KVA Transformer
1,250 KVA Generator
20 KVA Static UPS
Fire Water Tank (1,000 cum)
Foam Tanks

Administration Building (1,300 sqm)
Transformer Gen. Building (160 sqm)



Detailed Engineering
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8,220 sqm



Aircraft Hangar (8,220 sqm)

Steel Structure

25 m Height

Ground Floor

Acceptance Test Ground Station

Test Equipment Room

Assembly-Rework Area

Tool Room

Recreation Area

Chg. Room, WC & Shower

Warehouse, Utility Room

First Floor

Offices, Archives, Meeting Room

Cooling Capacity (167,500 kcal/h)

Heating Capacity (873,000 kcal/h)

1000 KVA Transformer

400 Hz, 160 kVA Frequency Converter

60 Hz, 60 kVA Frequency Converter

60 kVA Static UPS

Rigid Pavement Areas (9,000 sqm)



Environmental Impact Study
Detailed Engineering
Cost Estimations
Tender Documentation
Construction Specifications
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Basic Engineering
Topographical Surveys

17,965 sqm
374 Bed



Hospital (17,965 sqm)

Basement Floor

Gynecological Polyclinic, IVF Unit
Sterilization, WC-Showers
Locker, Utility Rooms
Stores, Utility Rooms, Morgue

Ground Floor - Polyclinics

Main Entry, Ear-Nose-Throat
Anesthesia, General Surgery
Brain Surgery, Urology
Cardiovascular Surgery
Cardiology, Plastic Surgery
Orthopedics, Eye

1-2-3-4-5 Floors - Clinics

Orthopedics, Ear-Nose-Throat
Urology, Eye, Gynecological
General Surgery
Cardiovascular Surgery
Brain Surgery

6 th. Floor

12 each Operating Room
Intensive Care Units



Detailed Engineering
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18,000 sqm



Research Center (18,000 sqm)

Basement Floor

Utility Rooms, Sports Center

Depots, Laboratories

Mechanical Workshop

Ground Floor

Main Entrance, Lobby, Cafeteria

Meeting Rooms, Laboratories

1-2 Floors

Office Rooms, Rest Rooms

Meeting Rooms, Laboratories

Cooling Capacity (2,000 KW)

Heating Capacity (2,700 KW)

Access Control & Security Systems

2,000 KVA Transformer

1,500 KVA Generator

500 KVA Dynamic UPS

80 KVA Static UPS

Tempest Security

**11,000 sqm**

Detailed Engineering
Cost Estimations
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**Research Center (11,000 sqm)****Basement Floor**

Utility Rooms, Sports Center

Depot Areas

Ground Floor

Main Entrance, Lobby, HVAC Center

Restaurant, Cefeteria, Offices

Library, Meeting Rooms

1.st Floor

Office Rooms, Conference Center

Rest Rooms, Laboratories

2-3-4 Floors

Office, Meeting and Rest Rooms

Cooling Capacity (1,329 KW)

Heating Capacity (1,835 KW)

Access Control & Security Systems

1,600 KVA Transformer

1,000 KVA Generator

420 KVA Dynamic UPS

80 KVA Static UPS

Tempest Security



Detailed Engineering
Cost Estimations
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11,600 sqm

Social Building (11,600 sqm)

Main Kitchen, Stores, Laundry
Trash Collection, Utility Rooms
Heating Center, Service Corridor
Cafeterias, Resting Areas
Telecom Facilities, Restaurants
Special Purpose Halls
Coctail Hall and Access Corridors



Heating Capacity (500.000 kcal/h)
Cooling Capacity (2x500.000 kcal/h)
Heat Exchanger (3x600,000 kcal/h)
Natural Gas Burner (474-845 kW)
1,250 KVA Transformer
800 kVA Generator
20 kVA UPS



**Detailed Engineering
Cost Estimations
Tender Evaluation
Tender Documentation
Construction Supervision
Construction Management
Commissioning
Geotechnical Studies
Topographical Surveys**

9,986 sqm



Research Center (9,986 sqm)

Utility Rooms, Storage Rooms

Electrical Room, Laboratories

Meeting Rooms, Libraries

Offices, Fast Food

Kitchen, Utility Rooms

Transformer Building (104 sqm)

1,600 KVA Transformer

115/200 V, 200 kVA Transformer

115/200 V, 75 kVA UPS

220/380 V, 400 kVA UPS

Heating Capacity (3x350.000 kcal/h)

Cooling Capacity (3x497.000 kcal/h)

UPS, CCTV, Public Adress Systems

Fire Alarm and Detecting Systems

Intercom, Paging Systems

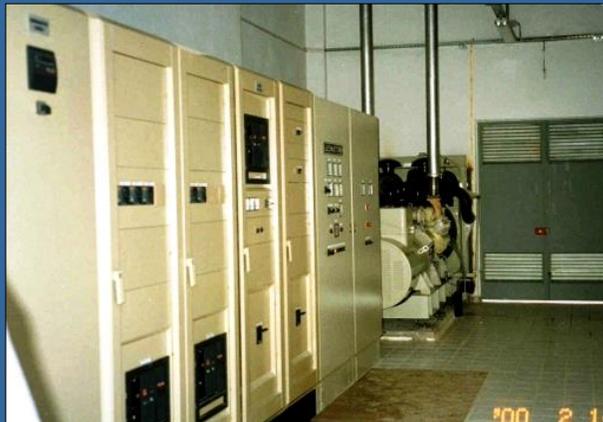
Ethernet 1, 2 and Fiber Optic Systems

Access Control Systems



Detailed Engineering
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4,687 sqm



Main Building (4,503 sqm)

Office Rooms, Utility Rooms
System Integration, Workshops
Acoustic and System Laboratories
Conference and Cafeteria Halls
Library, Fast Food, Kitchen
120 + 60 KVA UPS Systems
2 x Elevator (630 + 2000 Kg)
50/150 Telephone Network
Fire Alarm and Detection
PA, Intercom and Paging
UTP CAT 5C 100 Mb FO Network
Special Access Control Systems

Transformer Building (114 sqm)

2,000 KVA Transformer
400 KVA Automatic Generator

Heating Center (70 sqm)

3 x Chiller Unit (250,000 kcal/h)
2 x Boiler (348,300 kcal/h)



Detailed Engineering
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7,841 sqm**Total Construction Area : 7.841 sqm****Ground Floor : 1.883 sqm****Classrooms, Laboratories, Administration Rooms****Multi Purpose Hall****1-2-3rd Floors : 1.986 sqm****Classrooms, Laboratories, Teacher Rooms****Multi Purpose and Conference Halls****Mechanical Systems :****Cold and Hot Domestic Water Systems****Wastewater Systems****Fire Alarm and Fire Fighting Systems****Central Heating Systems****Exhaust Systems****Automatic Control System****Laboratory System****Electrical Systems :****220/380 V Power Distribution****Duplex Power Distribution System****Lighting Systems****Data and UPS Systems****Telephone and Central TV Systems****Fire Detection and Alarm Systems**



Environmental Impact Study
Detailed Engineering
Cost Estimations
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Geotechnical Studies
Basic Engineering
Topographical Surveys

46,780 sqm



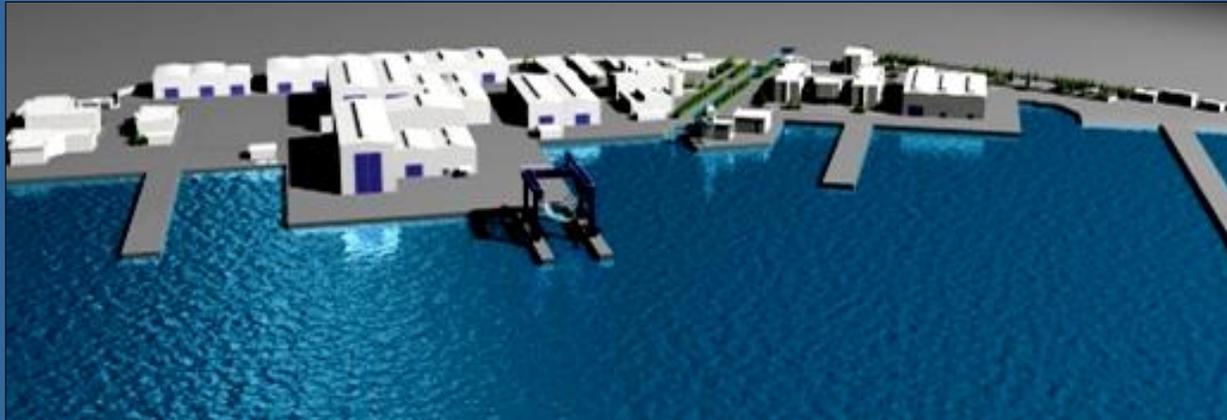
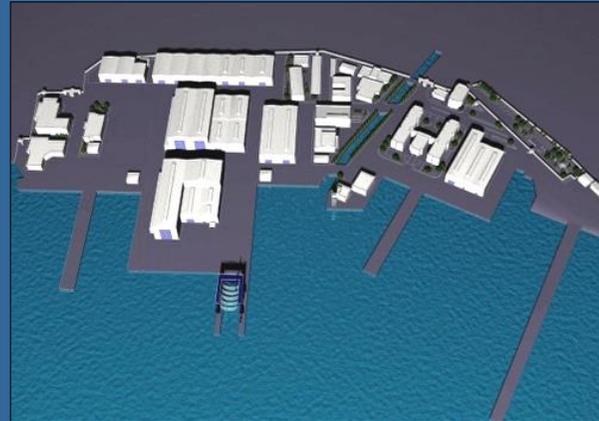
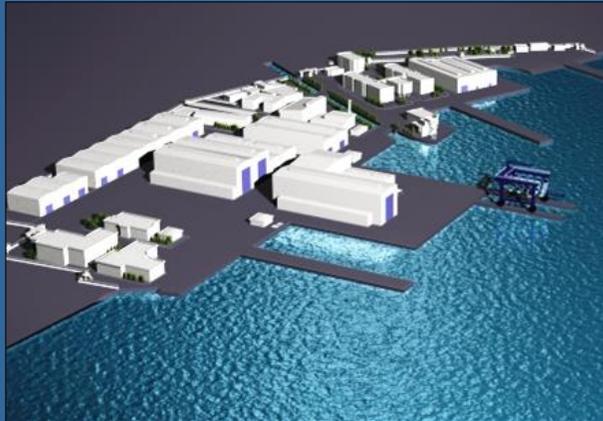
Total Construction Area : 46,780 sqm

Housing Complex (5,555 sqm)
Dormitory Building (13,595 sqm)
Multipurpose Hall (905 sqm)
Closed Sports Center (1,100 sqm)
Football Field and Facilities (725 sqm)
Lathe Workshop (610 sqm)
Cafeteria and Infirmary Building (350 sqm)
Heating Center and Water Storage (425 sqm)
Shops and Mini Football Field (Synt. Grass) (820 sqm)
Main Entrance Building (25 sqm)
Vehicle Maintenance Workshop (2,510 sqm)
Iron Works Workshop (1,870 sqm)
Printing House (4,100 sqm)
Wood Works Worksop (5,450 sqm)
Tailor Workshop (570 sqm)
Furniture and Electric Workshop (630 sqm)
Transformer Building (150 sqm)
Water Storage (225 sqm)
Depository Storage Restoration (7,165 sqm)



Detailed Engineering
Cost Estimations
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7,198 sqm



Machinery and Engine Factory

Steel Construction (4,598 sqm)

Factory Area, Engine Washing

Offices (2x743 sqm)

1 x 10 Ton, 1 x 15 Ton Crane

333 Pile, 65 cm Dia., 30 m Length

Fire Station and Trideck Building

R/F Construction (591 sqm)

36 Pile with 30 m Length

320-330 Chief Engineers Building

R/F Construction (612 sqm)

42 Pile with 30 m Length

400 Directorate Building

R/F Construction (656 sqm)

38 Pile with 30 m Length

400 Directorate Car Sheds

Steel Construction (945 sqm)

Engine Repair Workshop (88 sqm)

General Services Workshop

Steel Construction (460 sqm)

34 Pile with 30 m Length

Oxygen and Acetylene Facility

R/F Construction (272 sqm)

Ex Proof Systems

Auto. Fire Extinguishing System



Detailed Engineering
Cost Estimations
Construction Shop Drawings
Construction Specifications
Cost Control & Time Scheduling

58,000 sqm

Hotel Block (29,600 sqm)
5 Floor, 171 Room, 300 Bed
Health Center (9,000 sqm)
Sports Complex (9,800 sqm)
Culture Center (9,600 sqm)
Landscaping



9913 - Ankara Land Forces Closed Manege Facilities

(9,900 sqm) Closed Manege, Horse Clinic and Transformer Building

0801 - Ankara Sincan and Sasmaz Prisons Facilities Revisions

(20,800 sqm) Workshops, Social and Infrastructure Facilities

0714 - Konya Main Airforce Base AWACS Aircraft Hangar Restoration

(3,600 sqm) Restoration of Existing AWACS Aircraft Hangar

0712 - Ankara Sincan Prison Complex Additional Facilities

(12,822 sqm) Workshops and Infrastructure Facilities

0705 - Ankara Sasmaz Prison Facilities Revision

(5,388 sqm) Housing Complex, Amphitheater, Shopping Center

0627 - Tallil Airbase Convoy Support Center and DFAC - IRAQ

8 each Prefabricated Building and Total 13 km Connection Roads

0617 - Sereflikochisar Land Forces 50 Unit Housing Complex

(9,250 sqm) 5 Block, 50 Unit Housing Complex

0615 - Ankara RTUK TV System Hall

(400 sqm) Television System Hall

0520 - Konya Main Airforce Base FOB Facilities Warehouse Building

(286 sqm) Warehouse and Dehumidifier Units for AWACS Aircrafts

0519 - Balad Airbase Battalion Headquarter Buildings - IRAQ

(2,500 sqm) 15 each Headquarter Buildings

0517 - Anaconda and Taji Airbases CMU Barracks – IRAQ

(50,000 sqm) 30 each CMU Barracks

0511 - Iskenderun Naval Base Restoration of Ammunition Igloos

Restoration of 3 each Ammunition Igloo

0508 - Mersin Mut Military Branch Office Building

(553 sqm) 2 Floor Military Branch Building

0412 - Erzurum 400 Bed Capacity Educational Hospital

(80,000 sqm) 400 Bed Capacity Educational Hospital

0403 - Ankara Etimesgut Open Prison Complex Additional Facilities

(18,867 sqm) Workshops and Infrastructure Facilities

0311 - Iskenderun Officers Guesthouse

(6,900 sqm) 5 Floor, 72 Room Officers Guesthouse

0309 - Bursa Isiklar Military School Student Dormitories Restoration

(5,100 sqm) Dormitory Complex Restoration

0307 - Bingöl 49th Brigade Facilities

(21,190 sqm) Prefabricated Building and Infrastructure Systems

0212 - Ankara Turkish General Staff Additional Building

(1,821 sqm) Turkish General Staff Additional Building

0209 - Ankara Navy Headquarters Restoration

(17,981 sqm) Restoration of Main Building, New Open Office Areas

0104 - Mus Airfield Deployment Facilities

Camp Site for 400 Personnel, Infrastructure Facilities

0015 - Malatya Erhac Main Airforce Base Ammunition Facilities

Missile Inspection Facility, Liquid Oxygen Storage (LOX), TR Bldg.

9719 - Izmir, Bursa and Adana Racetracks Various Facilities

Various Superstructure Facilities Construction Supervision

9506 - Trabzon Airport Meteorology and Power Station Buildings

(1,775 sqm) Meteorology Building and Power Station

9010 - Afyon Airfield Squadron Operations Building

240 sqm Squadron Operations Building, 230 sqm Parking Apron

8904 - Ahmed Al Jaber Airbase Aircraft Shelters – KUWAIT

12 each Twin Type Reinforced Aircraft Shelter

ESER

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