

ProMer  ^{TR}
Müşavirlik Mühendislik A.Ş.
Consultancy Engineering Inc.

MINE PLANTS



your solution partner

PROMER CONSULTANCY | ENGINEERING INC.

POWER PLANTS

CEMENT PLANTS

MINE PLANTS

ARCHITECTURAL DESIGN

SEISMIC ENGINEERING

CONSULTANCY

MINE PLANTS

Promer Consultancy and Engineering has valuable experience on engineering and consultancy services in Turkey and abroad in the field of Mine Plants. Promer provides its multi disciplinary services to its local and international clients.

Promer prides itself on the praises of its customers in meeting schedules, well detailed designs, easy operating and thoroughness in completing projects within the established budget.

PROMER serves necessary engineering and consultancy services such as;

- Basic engineering
- Layout design with PDMS (AVEVA)
- Detail engineering (architectural, mechanical, structural, electrical, piping, hvac...etc.)
- Fire protection
- Infrastructure design
- Transportation (highways & bridges)
- Geotechnical design
- Material take of studies
- Tender documentation
- Site supervision,
- Contract management,
- Cost control,
- Health and safety supervision.

PROMER has ISO 9001/2000, ISO 14001/2009 and OHSAS 18001/2007 certificates which shows that PROMER highlights the quality anticipation and the importance to design environment friendly and energy saving structures.

PROMER uses Building Information System-BIM in its designs. This let PROMER and its clients fast and correct decisions and full integration with other engineering disciplines. BIM also enables client to make the maintenance schedules during the service life of the structure.

PROMER is ready to have collaborations in good agreement with technology developing companies and give services together in the region. In this collaboration PROMER supplies local engineering services and provides local data for its partner to accomplish the project.

The projects like Gümüşhane/Mastra and Eskişehir Kaymaz Gold Mine Plants for Koza Gold Operations, İzmir/Efemçukuru and Uşak/Kışladağ Phase-III Gold Mine Plants for Eldorado Gold Company, Ankara/Beypazarı Soda Plant for Eti Soda, Kütahya/Emet Boric Acid Plant and Bigadiç Boron Plant 2nd Homogenization and Optic Separator Units for Eti Mine Works General Management are among the references of PROMER.

FIELD OF EXPERTNESS

Promer contains its expertise in two divisions;

ENGINEERING SERVICES:

- Process Engineering
- Basic Layouts & Improvement
- Detail Engineering
 - Architectural Design
 - Structural Design
 - Mechanical Engineering
 - Piping Engineering
 - Electrical Engineering
- Instrumentation
- Infrastructure Designs
- Seismic Engineering
- AVEVA, PDMS & E3D Modelling
- BIM Modelling
- Laser Scanning & Reverse Engineering

CONSULTANCY SERVICES:

- Feasibility Studies
- Construction Management
- Health & Safety Supervision
- Project Management
- Project Construction & Erection Scheduling
- Cost Control
- Site Supervision

PROMER WORLDWIDE



Algeria
Azerbaijan
Bulgaria
Brazil
Czech Republic
Egypt
Georgia
Germany

Iraq
Jordan
Kazakhstan
Liberia
Libya
Mexico
Panama
Philippines

Qatar
Saudi Arabia
Syria
Turkey
Turkmenistan
United Arab Emirates
Vietnam

PROMER is proud of realization of designs in different regions of the world.

PROMER EMPLOYEES



- Process – 5
- Civil – 36
- Structural – 42
- Electrical Installation – 14
- Instrumentation – 5
- Mechanical Installation – 13
- Mechanical Platework – 15
- Piping – 14
- Architectural – 12
- Project Controls – 6
- Site Supervisors – 12

SELECTED CLIENTS

INTERNATIONAL CLIENTS:

- ALDRIDGE Minerals Inc. – Canada
- ELDORADO Gold Company – Canada
- CPI – China
- CSEPDI (Central Southern China Electrical Power Design Institute) – China
- HARBIN Electrical Inst. – China
- RUNH Power Plant Eng. Tech. Co. – China
- TCC (China Tianchen Eng. Company) – China
- VITKOVICE – Czech Republic
- MTHojgard FLS – Denmark
- FCB Ciment – France
- FIVES – France
- OUTOTEC – Germany
- CIMPOR – Portugal
- PETROFAC – U.A.E.
- BECHTEL CO. – U.S.A.
- JACOBS/Denver – U.S.A.

NATIONAL CLIENTS:

- Alarko
- Anagold Co.
- Asia Minör Madencilik
- Asya Maden İşletmeleri A.Ş.
- Aşkale Çimento
- Çaldağ Nikel Madencilik
- Eren Holding
- Eti Maden İşletmeleri
- Eti Soda A.Ş.
- Gama Endüstri
- Koza Altın İşletmeleri
- Nuh Çimento
- Tüprag Metal Madencilik
- Tekfen A.Ş.
- Tümad Madencilik A.Ş.



LAPSEKI GOLD PLANT - TÜMAD

NAME OF CLIENT: Tümad Madencilik A.Ş.

ADDRESS: Karum İş Merkezi D Blok No:401 Kavaklıdere, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 85 Million USD

LOCATION: Lapseki, Çanakkale, TURKEY

PROMER'S START DATE / COMPLETION DATE (PHASE I): May 2015 - July 2017

PROMER'S START DATE / COMPLETION DATE (PHASE II): January 2021 - Ongoing

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT (PHASE I): 710

NARRATIVE DESCRIPTION OF THE PROJECT:

Phase I - Lapseki Gold Mine Plant between 2014 and 2017

Tümad Madencilik A.Ş. which belongs to Nurol Group is a 100% local owned company.

The mineralization is amenable to gold recovery through a standard CIL treatment facility.

The

capacity of the plant is approximately 850,000-t/y.

The scope of Promer is EPCM services and the details in this project are;

- Preparation of definitive feasibility report according to NI43-101,
- Basic design,
- Architectural, mechanical, structural, civil, piping, hvac, electrical and instrumentation detail design according to Turkish codes and specifications.
- Procurement support
- Construction management and commissioning.

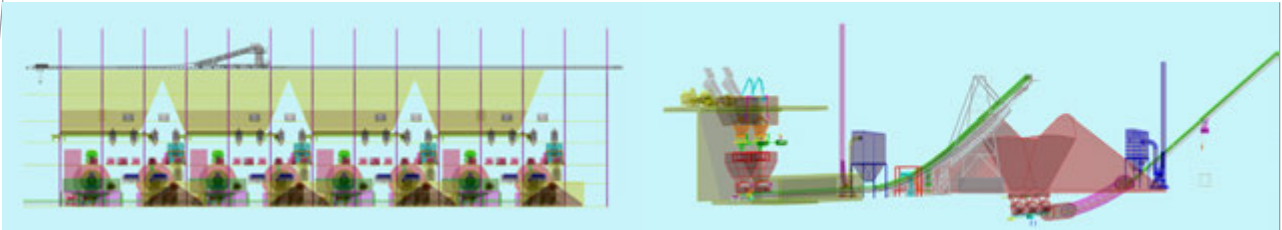
In this project Promer is collaborating with BBA for the feasibility report and basic design.

Phase II - Lapseki Gold Mine Plant Extension

Lapseki Gold Mine Plant's capacity is aimed to increase upto 1.5 million tons/year. The engineering study has been performed with the update of the NI43-101 feasibility report.

The scope of Promer in this project is;

- Basic design
- Detail design (Architecture, steel and reinforced concrete structure, electric, automation, instrumentation, mechanical installation and equipment, piping, infrastructure, geotechnical design)
- Material take-off and cost analysis
- Tender preparation and procurement support



ANATOLIA IRON MINE PROJECT

NAME OF CLIENT: Erdemir Madencilik San. ve Tic. A.Ş.

ADDRESS: Kalealtı, Cürek Yolu 5. Km, 58300 Divriği / Sivas, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 750 Million USD

LOCATION: Hekimhan, Malatya, TURKEY

PROMER'S START DATE: June 2020

PROMER'S COMPLETION DATE: August 2020

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 5

NARRATIVE DESCRIPTION OF THE PROJECT:

Erdemir plan to construct an iron ore mining, crushing, concentration and pelletizing facility with a total production capacity of 3.0 MTPA of acid pellets in Hasancelebi, Malatya, Turkey.

The raw ore will be produced in Hasancelebi iron ore mine and produced pellets will be used in Erdemir's blast furnace as feedstock along with sinters produced at blast furnace site.

The scope of Promer in this project is;

- Material take-off study
- Support for work breakdown structure generation
- Support for level III schedule generation
- Support for document numbering system generation



CAPACITY INCREASE FOR YOUGA GOLD MINE PLANT - AVESORO RESOURCES

NAME OF CLIENT: Avesoro Resources

ADDRESS: 199 Bay Street Suite 5300 Commerce West Street Toronto Ontario, M5L 1B9 Canada

APPROX. VALUE OF THE TOTAL INVESTMENT:

LOCATION: Youga, Burkina Faso

PROMER'S START DATE: April 2020

PROMER'S COMPLETION DATE: January 2021

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 45

NARRATIVE DESCRIPTION OF THE PROJECT:

The capacity will be increased from 1.2 million tons/year to 1.8 million tons/year.

The scope of Promer in this project is;

- Detail design (Architecture, steel and reinforced concrete structure, electric, automation, instrumentation, mechanical installation, piping design)
- Material take-off and cost analysis
- Tender preparation and procurement support



CAPACITY INCREASE FOR NEW LIBERTY GOLD MINE PLANT - AVESORO RESOURCES

NAME OF CLIENT: Avesoro Resources

ADDRESS: 199 Bay Street Suite 5300 Commerce West Street Toronto Ontario, M5L 1B9 Canada

APPROX. VALUE OF THE TOTAL INVESTMENT:

LOCATION: Golakonneh, Liberia

PROMER'S START DATE: June 2020

PROMER'S COMPLETION DATE: October 2020

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 115

NARRATIVE DESCRIPTION OF THE PROJECT:

Engineering services are provided to increase the capacity to 550 t/s for the existing plant whose capacity is 225 t/s.

The scope of Promer in this project is;

- Detail design (Architecture, steel and reinforced concrete structure, electric, automation, instrumentation, mechanical installation, piping design)
- Material take-off and cost analysis
- Tender preparation and procurement support



EFEMCUKURU GOLD MINE COLUMN FLOTATION ENGINEERING SERVICES - TÜPRAG

NAME OF CLIENT: Tuprag Metal Mining Ind. & Trade Inc.

ADDRESS: Gaziosmanpaşa, İnan Cd. No:1, 06700 Çankaya/Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT:

LOCATION: Izmir, TURKEY

PROMER'S START DATE: November 2019

PROMER'S COMPLETION DATE: February 2020

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 23

NARRATIVE DESCRIPTION OF THE PROJECT:

Efemcukuru Gold Mine was designed for a 11 years mine life when commissioned at 2012 after the construction and installation was accomplished. In the recent years 10 years of mine life from time being is estimated through the exploration of the new ore. However decrease and/or impurities in tenor is observed in the ore which is fed to the concentrator

Because of base metal amount, sulphur variability and tenor lowness grinding and flotation studies was executed by HMT. As a result of this studies it was decided to add column flotation at the end of a cleaning circuit. PROMER carried out the detailed engineering services for this column flotation unit which was located in the concentrator unit.

The scope of Promer in this project is;

- Detail design (Architecture, steel and reinforced concrete structure, electric, automation, instrumentation, mechanical installation, piping design)
- Material take-off and cost analysis
- Tender preparation and procurement support



YENİPAZAR POLYMETALLIC VMS DEPOSIT (Au, Ag, Cu, Pb, Zn) – ALDRIDGE MINERALS

NAME OF CLIENT: Aldridge Minerals Inc.

ADDRESS: 10 King Street East, Suite 300 Toronto, Ontario M5C 1C3, CANADA

APPROX. VALUE OF THE TOTAL INVESTMENT: 280 Million USD

LOCATION: Yenipazar, Yozgat, TURKEY

PROMER'S START DATE / COMPLETION DATE (PHASE I): September 2013- January 2014

PROMER'S START DATE / COMPLETION DATE (PHASE II): January 2019- March 2019

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT (PHASE I): 42

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT (PHASE II): 7

NARRATIVE DESCRIPTION OF THE PROJECT:

Phase I - Yenipazar Polymetallic VMS Deposit

The Investor is ALDRIDGE MINERALS INC. which is a Canadian company. The Yenipazar Project is a polymetallic volcanogenic massive sulphide ("VMS") body that hosts a gold-silver-copper-lead-zinc mineral deposit within the Yenipazar Property.

The technologic design is generated by Jacobs/Toronto.

It has a currently determined strike length of at least 1,700 metres averaging 200 metres in width and approximately 20 metres in thickness at depths between 30 and 190 metres. Much of the ore body is sitting at a depth of approximately 50 to 120 metres. The Yenipazar Project includes approximately 9.5 square kilometres of land within the project fence line.

Promer collaborated Jacobs Toronto in this project. Jacobs provided inputs for layout revisions for optimization study and the scope for Promer is BFS update cost optimization study, determination of execution strategy and preparation of tendering schedule and formats. This study was accomplished in 2013

Phase II - Capex&Opex Update of NI43-101 Technical Report on Yenipazar Optimization Study (AACE Class III)

At the end of the optimization study capex and opex value has been updated inline with NI43-101 conditions in 2019.

The scope of Promer in this project is;

- BFS update
- Capex & Opex optimization study
- Execution strategy study
- Tender preparation support



KIŞLADAG MILLING PROJECT BASIC ENGINEERING - TÜPRAG

NAME OF CLIENT: Tuprag Metal Mining Ind. & Trade Inc.

ADDRESS: Gaziosmanpaşa, İnan Cd. No:1, 06700 Çankaya/Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 440 Million USD

LOCATION: Uşak, TURKEY

PROMER'S START DATE: July 2018

PROMER'S COMPLETION DATE: December 2018

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 25

NARRATIVE DESCRIPTION OF THE PROJECT:

Tuprag is Turkish affiliate of Eldorado Gold which is a Canadian mid-tier gold and base metals producer that operates the Kışladağ bulk tonnage (38,000 tpd) heap leach gold operation in western Turkey. The project is to develop a process plant design incorporating the existing crushing circuit with a whole ore leach circuit at the basic engineering stage that includes grinding, thickening, leaching, CIP, detox, and tailings filtration.

The scope of Promer in this project is;

- Developing the basic engineering deliverables for the various disciplines within the scope of facilities included in the project;
- Providing project management services for the delivery of the basic engineering services;
- Conducting a comprehensive risk analysis of the project;
- Developing the capital cost estimate for the scope under the responsibility;
- Support in the preparation of the operating cost estimate;
- Developing a Project Execution Plan (PEP),
- Providing procurement services for main process equipment.



IVRINDI GOLD MINE PLANT - TÜMAD

NAME OF CLIENT: Tümad Madencilik A.Ş.

ADDRESS: Karum İş Merkezi D Blok No:401 Kavaklıdere, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 235 Million USD

LOCATION: Balıkesir, TURKEY

PROMER'S START DATE: June 2017

PROMER'S COMPLETION DATE: January 2020

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 986

NARRATIVE DESCRIPTION OF THE PROJECT:

Within the scope of the Project, gold and silver ore is obtained from 4 pits (namely the Ballıktepe, Karteldere, Kabaktepe and Güney-Boyun pits). The produced ore is subjected to enrichment process by heap leaching and dore gold and silver is obtained as final product. The mineralization is amenable to gold recovery through a crushing, screening, grinding (HPGR), agglomeration and heap leach facility. The capacity of the plant is 7.7Mt/y.

The scope of Promer in this project is;

- Basic design
- Detail design (Architecture, steel and reinforced concrete structure, electric, automation, instrumentation, mechanical installation and equipment, piping, infrastructure, geotechnical design)
- Material take-off and cost analysis
- Tender preparation and procurement support
- Site supervision
- Project and contract management
- Cost and schedule control
- Commissioning consultancy



GÖKIRMAK COPPER PLANT – ASYA MADEN

NAME OF CLIENT: Asya Maden İşletmeleri A.Ş.

ADDRESS: Balmumcu Mah. Barbaros Bulvarı Morbasan Sokak Koza İş Merkezi
C Blok No:14 Giriş Kat Beşiktaş, İstanbul, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 95 Million USD

LOCATION: Hanönü, Kastamonu, TURKEY

PROMER'S START DATE: April 2015

PROMER'S COMPLETION DATE: April 2017

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 305

NARRATIVE DESCRIPTION OF THE PROJECT:

Gökırmak Copper Project (GCP) is a planned greenfields development located in Hanönü/Kastamonu in northern Turkey. The town of Hanönü is 70 km away from the city of Kastamonu. Kastamonu is the closest major city in the region, with a population of 80,000, and is the capital of the Hanönü district of Hanönü/Kastamonu.

The GCP is planned to be a conventional open-pit mine supplying copper ore to a process plant that will produce copper concentrate as a final product. The copper concentrate will be trucked from site to domestic customers or to a port facility for export.

The mine will extract copper ore by open-pit from the Gökırmak orebody. Ore treatment will consist of conventional crushing, milling, flotation, concentrate dewatering, and tailings thickening. Tailings disposal will be to a lined facility located across the valley to the north-east, adjacent to the town of Hanönü.

A Feasibility Study has been conducted on the basis of mining and processing ore at the rate of two million tonnes per annum to produce an average of 118,800 tonnes of dry concentrate each year.

The scope of Promer in this project is architectural, mechanical, structural, civil, piping, hvac, detail design according to Turkish codes and specifications. The existent feasibility study report is reviewed and updated by Promer.



HALILAĞA COPPER-GOLD DEPOSIT – PILOTGOLD

NAME OF CLIENT: Pilotgold Inc.

ADDRESS: Suite 1900, 1055 West Hastings Vancouver, BC V&E 2E9, CANADA

APPROX. VALUE OF THE TOTAL INVESTMENT: 240 Million USD

LOCATION: Çan, Çanakkale, TURKEY

PROMER'S START DATE: November 2015

PROMER'S COMPLETION DATE: January 2016

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 5

NARRATIVE DESCRIPTION OF THE PROJECT:

The Halilaga copper-gold deposit, Turkey's 4th largest gold deposit, is characterized by high grades at surface in both metals, little to no overburden and favourable terrain.

The proposed project concept is to develop a green-fields copper-gold deposit with open pit mining and conventional milling and flotation concentration methods and a CIL plant for improved gold recoveries. The production rate was assumed to be 25,000 tonnes per day over 13.6 years with about 124.3 million tonnes of mineralized material mined and processed during the project life.

An estimated 779.4 million pounds of copper and 924,000 ounces gold would be produced at an average grade of 0.34% copper and 0.34 g/t gold.

The scope of Promer in this project is preparation of capex update report for PEA.

DESCRIPTION OF ACTUAL SERVICES PROVIDED BY PROMER:

- Capex update report for PEA



KOKOYA GOLD PLANT – MNG

NAME OF CLIENT: MNG Orko A.Ş.

ADDRESS: Uğur Mumcu Caddesi No: 88, 06700 Gaziosmanpaşa, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 70 Million USD

LOCATION: Kokoya, LIBERIA

PROMER'S START DATE: November 2014

PROMER'S COMPLETION DATE: July 2015

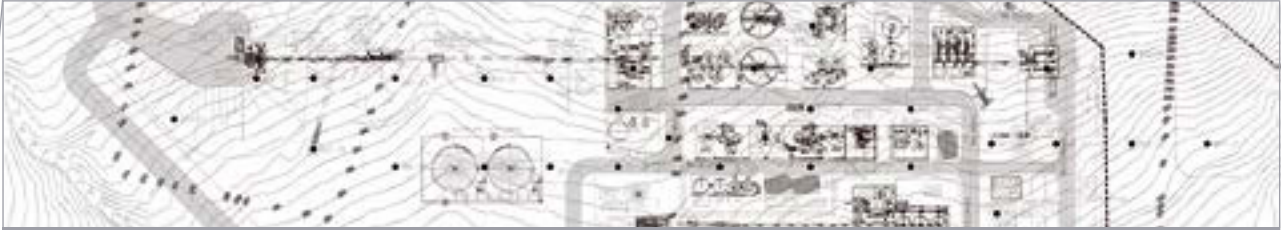
TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 68

NARRATIVE DESCRIPTION OF THE PROJECT:

The Investor, MNG Orko aims to produce gold in a short time at areas which is handed over and developed. As MNG Orko started its operations at July 2013 it is the most recent company among MNG Holding Group.

The capacity of the project is 4.9 million ton and tenor is approximately 2,60 g/t. The ore will be subjected to tank leaching and the annual capacity of the plant is 360,000 t.

The scope of Promer in this project is development of basic design and then architectural, mechanical, structural, civil, piping, hvac, electrical, instrumentation and geotechnical detail design. The design is carried out according to American and European codes and specifications.



ÇALDAĞ NICKEL PLANT

NAME OF CLIENT: Çaldağ Nikel Madencilik San. ve Tic. A.Ş.

ADDRESS: Bayramşah Mevkii Çampınar Köyü 45400 Turgutlu, Manisa, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 80 Million USD

LOCATION: Turgutlu, Manisa, TURKEY

PROMER'S START DATE: March 2014

PROMER'S COMPLETION DATE: October 2016

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 395

NARRATIVE DESCRIPTION OF THE PROJECT:

Client has retained the mine licence and mining activity authorization since 2004. The plant has a capacity to process 250,000 t/a ore. It is planned to attain nickel, cobalt and iron cake through processing the low tenor nickel, cobalt and iron ore by tank leaching method. The proved nickel reserve of the mine is 29.7 million tonnes. From three different open pits totally 29.7 million tonnes ore and 127.9 million tonnes waste will be extracted. The tenors of the ore are approximately 1.16% nickel, 0.07% cobalt and 21.6% iron. Through the process plant it is aimed to get 16,000 tonnes of nickel and 900 tonnes of cobalt annually. Promer collaborated Jacobs Toronto & Denver in this project. Jacobs prepared basic design and Promer gave input for the basic design.

Promer's scope includes basic and detail (architectural, structural, electrical, mechanical and infra-structural) design. The design is executed according to Turkish specifications.



HİMMETDEDE CRUSHING & SCREENING PLANT – KOZA ALTIN

NAME OF CLIENT: Koza Altın İşletmeleri A.Ş.

ADDRESS: İstanbul Yolu, 10.km No:310, Batıkent, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 5 Million USD

LOCATION: Himmetdede, Kayseri, TURKEY

PROMER'S START DATE: February 2013

PROMER'S COMPLETION DATE: May 2013

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 15

NARRATIVE DESCRIPTION OF THE PROJECT:

The aim of the screening and crushing plant is providing suitable material for the heap leach pad of the gold plant. The capacity of the three staged screening and crushing unit is 600 t/h.

Promer's scope includes technological layout, structural and mechanical design. The design is executed according to Turkish codes and specifications.

The scope detail of Promer is general layout design, design of structural chassis and platforms of main equipments, preparation of supply or execution design of all equipments, preparation of excavation plans, design of reinforced concrete, steel structures and conveyors, reinforced concrete and architectural design for crushing and screening units, detail engineering studies for mechanical and structural works.



ÇÖPLER GOLD MINE SART PLANT – ANAGOLD

NAME OF CLIENT: Atilla Makine İnşaat Ltd. Şti.

ADDRESS: Ceyhun Atf Kansu Cad. Ata Plaza No: 100/4 Balgat, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 18 Million USD

LOCATION: İliç, Erzincan, TURKEY

PROMER'S START DATE: February 2012

PROMER'S COMPLETION DATE: October 2012

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 45

NARRATIVE DESCRIPTION OF THE PROJECT:

The Investor is ANAGOLD which is a joint venture company of Alacer Gold (80%) and Lidya Mining (20%). Anagold is the operator company of Copler Gold Mine, which holds four mining licenses. These licenses covers an area which contains both oxide and sulphide gold mineralization.

The Çöpler Gold Oxide Project is a conventional open pit gold mine, which ore processing by way of three stage crushing followed by agglomeration and heap leaching. Preliminary test work has shown that some of the ore types at the mine contain a level of copper which will result in high cyanide consumption and operating variability in a standard CIC circuit. Therefore, a Sulfidization, Acidification, Recycle and Thickening (SART) Plant is built for economic recovery of copper and regeneration of free cyanide.

Promer's scope includes general layout design, architectural, structural, electrical, mechanical, infrastructural design and basic design improvement. The design is executed according to Turkish codes and specifications.



KAYMAZ GOLD MINE PLANT – KOZA ALTIN

NAME OF CLIENT: Koza Altın İşletmeleri A.Ş.

ADDRESS: İstanbul Yolu, 10.km No:310, Batıkent, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 90 Million USD

LOCATION: Sivrihisar, Eskişehir, TURKEY

PROMER'S START DATE: October 2010

PROMER'S COMPLETION DATE: December 2011

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 131

NARRATIVE DESCRIPTION OF THE PROJECT:

The total reserve of Kaymaz Gold Mine is 248,000 ounces and approximate grade is 6.04 g/t for gold and 5.3 g/t for silver.

Ore is processed at Kaymaz Plant with tank leach method to produce gold. Ore received from crusher is grinded in ball and rod mills and fed into leach tanks. The capacity of crusher and screen is 180 t/hr and capacity of the mill is 60 t/hr.

Promer's scope includes technological, architectural, structural, electrical, mechanical, infrastructural and geotechnical design. The design is executed according to Turkish codes and specifications.



KIŞLADAĞ GOLD MINE PLANT – ELDERADO GOLD

NAME OF CLIENT: Eldorado Gold Corporation

ADDRESS: 1188 - 550 Burrard Street, Bentall 5 Vancouver, BC CANADA V6C 2B5

APPROX. VALUE OF THE TOTAL INVESTMENT: 40 Million USD

LOCATION: Uşak, TURKEY

PROMER'S START DATE: July 2010

PROMER'S COMPLETION DATE: December 2011

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 128

NARRATIVE DESCRIPTION OF THE PROJECT:

Kışladağ Gold Project is the largest gold mine in Turkey when it reaches full production. Total gold reserve is envisaged as 10,231,000 ounces and approximate grade is 0.74 g/t. Kışladağ was advanced from an exploration discovery through development to construction and production. Kışladağ is a low grade, bulk tonnage open pit operation using heap leaching for gold recovery. The ore is processed in a standard heap leach facility containing a three-stage crushing circuit, an overland conveyor to the heap leach pad, mobile conveyors and a stacker for placing the ore and a carbon absorption facility (ADR plant) for recovering the gold.

The scope of the project is upgrade of the crushing circuit to 12.5 million tonnes per year.

Promer's scope includes architectural, structural, electrical and mechanical design. The design is executed according to Turkish codes and specifications.



EFEMÇUKURU GOLD MINE PLANT – ELDERADO GOLD

NAME OF CLIENT: Eldorado Gold Corporation

ADDRESS: 1188 - 550 Burrard Street, Bentall 5 Vancouver, BC CANADA V6C 2B5

APPROX. VALUE OF THE TOTAL INVESTMENT: 153 Million USD

LOCATION: Menderes, İzmir, TURKEY

PROMER'S START DATE: April 2007

PROMER'S COMPLETION DATE: April 2011

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 510

NARRATIVE DESCRIPTION OF THE PROJECT:

The Efemçukuru project is a high grade underground mining operation. Ore will be processed through a milling and flotation concentrate circuit on site. Mine life is about 9.4 years. Ore is processed at 1,100 tonnes per day through a SAG/ball mill grinding circuit followed by gravity and flotation. The flotation concentrate is shipped to the Kışladağ gold mine for further processing and recovery of gold. Tailings will be filtered on site to recover water, producing a dry stack tailing for surface disposal and paste backfill for underground mine support.

The scope of the project is construction of the gold plant with an envisaged reserve of 1,506,000 ounces and approximate grade of 9.10 g/t.

Promer's scope includes technological, architectural, structural, electrical, mechanical, infra-structural, geotechnical design and construction supervision. The design is executed according to Turkish codes and specifications.



MASTRA GOLD MINE PLANT – KOZA ALTIN

NAME OF CLIENT: Koza Altın İşletmeleri A.Ş.

ADDRESS: İstanbul Yolu, 10.km No:310, Batıkent, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 85 Million USD

LOCATION: Gümüşhane, TURKEY

PROMER'S START DATE: July 2007

PROMER'S COMPLETION DATE: February 2008

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 116

NARRATIVE DESCRIPTION OF THE PROJECT:

The total reserve of Mastra Gold Mine is 944,100 ounces and approximate grade is 12.13 g/t for gold and 5,5 g/t for silver.

Ore is processed at Mastra Plant with tank leach method to produce gold. Ore is grinded in ball and rod mills and fed into leach tanks. The copper contained in the ore is recovered by SART system. The capacity of the mill is 60 t/hr.

Promer's scope includes technological, architectural, structural, electrical, mechanical, infra-structural, geotechnical design, procurement support and construction supervision. The design is executed according to Turkish codes and specifications.

ÇALDAĞ SULFURIC ACID PLANT – TCC

NAME OF CLIENT: China Tianchen Chemical Engineering Corporation

ADDRESS: Jingjin Road No:521 Beichen District, Tianjin, CHINA

APPROX. VALUE OF THE TOTAL INVESTMENT: 20 Million USD

LOCATION: Turgutlu, Manisa, TURKEY

PROMER'S START DATE: September 2007

PROMER'S COMPLETION DATE: May 2008

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 34

NARRATIVE DESCRIPTION OF THE PROJECT:

The Investor is ÇALDAĞ NİKEL which is a subsidiary of VTG Holding, established by Turkish entrepreneurs as a 100% Turkish-capital company on the purpose of exploring and operating underground resources of Turkey.

An important part of the nickel plant is the construction of a sulphur-burning plant to supply nickel with sulphuric acid, its largest input item. This acid plant supplies Çaldağ with 1 million tonnes per annum of sulphuric acid and also produces around 30 MW of electricity from an ancillary generator. Half of this power is used at the Çaldağ project and the remainder sold to the national grid.

Promer's scope includes structural design. The design is executed according to Turkish codes and specifications.



BEYPAZARI SODA ASH PLANT – ETİ SODA

NAME OF CLIENT: Eti Soda A.Ş.

ADDRESS: Söğütözü İş Merkezi Söğütözü Caddesi No:14/D Beştepeler 06560 Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 375 Million USD

LOCATION: Beypazari, Ankara, TURKEY

PROMER'S START DATE: May 2005

PROMER'S COMPLETION DATE: May 2008

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 56

NARRATIVE DESCRIPTION OF THE PROJECT:

Beypazari Trona Bed (natural soda ash), found during coal exploration studies conducted by MTA in 1979, constitutes the second largest reserve in the world, along with the reserves in Kazan (Ankara), and following the reserves in USA-Wyoming. The final product of Beypazari Trona ore is "heavy soda ash". The main industry which uses heavy soda ash is the glass industry. Soda ash is the second raw material used in production of glass following silica. The next industry that consumes soda is the chemistry industry, and it is also used in many other industries such as in detergent, paper, and aluminum production industries. Soda is obtained with solution mining techniques. 1 million tons of soda ash and 100,000 tons of "sodium bicarbonate" for the food sector are produced per year.

Promer's scope includes architectural, structural, electrical, mechanical, infrastructural design and construction supervision. The design is executed according to Turkish codes and specifications.



BİGADIÇ BORON FACILITY 2ND HOMOGENIZATION UNIT – ETİ MADEN

NAME OF CLIENT: Eti Maden İşletmeleri

ADDRESS: Ayvalı Mah. Halil Sezai Erkut Cad. Afra Sok. No: 1/A Etlik-Keçiören, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 10 Million USD

LOCATION: Bigadiç, Balıkesir, TURKEY

PROMER'S START DATE: August 2005

PROMER'S COMPLETION DATE: December 2005

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 32

NARRATIVE DESCRIPTION OF THE PROJECT:

The Investor is Eti Maden İşletmeleri which was established with a capital of 20 million Turkish Lira on the 14th of June 1935, in the aftermath of the global financial crisis and the Turkish War of Liberation of the early 1900's as a drive of modern industrialization that brought together natural resources and the concept of finance. The company was restructured on 1/5/1998 as Eti Holding and later became Eti Maden İşletmeleri on 31/1/2004. The company has a capital of 100 million TL as of the end of 2010.

The plant has capacity of 125 tons/hr of ore processing.

Promer's scope includes architectural, structural, electrical, mechanical, infrastructural, basic, geotechnical design and construction supervision. The design is executed according to Turkish codes and specifications.



EMET BORIC ACID PLANT – ETİ MADEN

NAME OF CLIENT: Öztaş İnşaat A.Ş.

ADDRESS: Mebusevleri İller Sokak No:10 06580 Tandoğan, Ankara, TURKEY

APPROX. VALUE OF THE TOTAL INVESTMENT: 120 Million USD

LOCATION: Emet, Kütahya, TURKEY

PROMER'S START DATE: March 1999

PROMER'S COMPLETION DATE: March 2004

TOTAL NUMBER OF STAFF-MONTHS OF THE ASSIGNMENT: 210

NARRATIVE DESCRIPTION OF THE PROJECT:

The Investor is Eti Maden İşletmeleri which was established with a capital of 20 million Turkish Lira on the 14th of June 1935, in the aftermath of the global financial crisis and the Turkish War of Liberation of the early 1900's as a drive of modern industrialization that brought together natural resources and the concept of finance. The company was restructured on 1/5/1998 as Eti Holding and later became Eti Maden İşletmeleri on 31/1/2004. The company has a capital of 100 million TL as of the end of 2010.

New Boric Acid Plant has a 100.000 tons/year capacity. The project of industrial facility is based on 190.000 m² area.

Promer's scope includes architectural, structural and infrastructural, design. The design is executed according to Turkish codes and specifications.



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