

Mining Project

Application Designs, Construction Follow up Services, Technical Expertise Consulting and Development of Data Management System for Eldorado Gold mining project in Greece - FIDIC Conditions of Contract, Northern Greece

Project

1. Construction follow up (design) services, Technical expertise consulting, Application designs and Development of Data Management System for the construction of:

(a) Olympias main tunnel, (b) Olympias secondary access tunnel, (c) Kokkinolakkas diversion tunnel, (d) Skouries spiral decline

2. Geological, geotechnical and foundation designs of the civil works for Skouries plant / Detailed designs for the retaining structures, open slopes and reinforced embankments required for the mining project / Technical expertise (design) consulting

Construction Cost

Total cost: approx. € 205 m.

Project Schedule

Design: 2011 - 2015

Construction 2012 - 2018

Project Description

Main Olympias tunnel

Length: 8,770m, longitudinal inclination:10% and cross section effect. area 37.2m²

Olympias secondary access tunnel

Length 1,043m, longitudinal inclination :.9% and cross section effect. area 22.3m²

Kokkinolakkas stream diversion tunnel

Length 1,200m, longitudinal inclination:6.5% , Effect. cross section: 9.55m²

Skouries spiral decline

Length: 5,445m, Effect. cross section: 37.2m²

Length of shaft (vertical): 720m, Effect. cross section: 28m²

Geology

Amphibolites – amphibolitic gneisses, Biotitic gneisses, Pegmatites, Marbles, Tectonic breccias, Mylonitized zones, Kaolin occurrence zones

Our Services Project 1)

- Construction follow-up services

Geological/geotechnical mapping of the underground excavated faces / Geotechnical evaluation of the tunnelling conditions (NATM principles)/ Evaluation of the geomechanical monitoring data/ Modification or revision of the appropriate support and drainage measures/ Contractual support/ Interaction with the worksite tunnel management (FCQ's, technical decisions, monthly reporting etc.)

- Technical expertise consulting

Elaboration of application designs, specialized designs /Managing construction issues

- Document Management System

Database development for the management of the project's documentation. MyDocma. My Docma Report & Docma Pix



Kokkinolakkas Diversion tunnel



Olympias secondary access tunnel



Kokkinolakkas Stream diversion tunnel & affiliated works

Our Services Project 2)

- Geological, geotechnical and foundation designs for the civil works of Skouries mineral processing plant

Design and planning of the geotechnical investigations and laboratory tests/ Assessment and interpretation of the geotechnical investigations results/ Geological mapping and identification of the geotechnical profiles/ Hydrogeological assessment/ Geotechnical evaluation

- Geotechnical foundation designs for the process plant and positioning and preliminary designs for the excavation works, construction drawings and BoQ's
- Detailed designs for the retaining structures, the open slopes and the reinforced embankments of Skouries plant

Client

AKTOR S.A.