

Platanos & Trapeza Railway Tunnels and associated Hydraulic Drainage Tunnel

Athens - Patras High Speed Railway Line, Section Kiato - Egio

Central Greece

Project

- Platanos railway tunnel
- Trapeza railway tunnel
- Water drainage tunnel

Construction Cost

Total cost: approx. € 100 m.

Project Schedule

Design: 2007 - 2010
Construction: 2007 - 2013

Project Description

- Section of Platanos Railway Tunnel

Tunnel's length: 500m
Excavation cross section: 150m²

- Section of Trapeza Railway Tunnel

Tunnel's length: 2.760m
Excavation cross section: 150m²

- Water Drainage Tunnel

Tunnel's length: 200m
Cross section: 7m²

Method of tunnel excavation

NATM – Use of mechanical means
TBM (Tunnel Boring Machine) for Trapeza tunnel pipe jacking

Final Lining

Reinforced concrete C30/37 and precast reinforced concrete segments

Geology

Marls, conglomerates, marine deposits
Maximum overburden of Platanos tunnel: 90m
Maximum overburden of Trapeza tunnel: 90m
Maximum overburden of water drainage Tunnel: 30m

Our Services

Detailed geotechnical & structural design

Construction Details

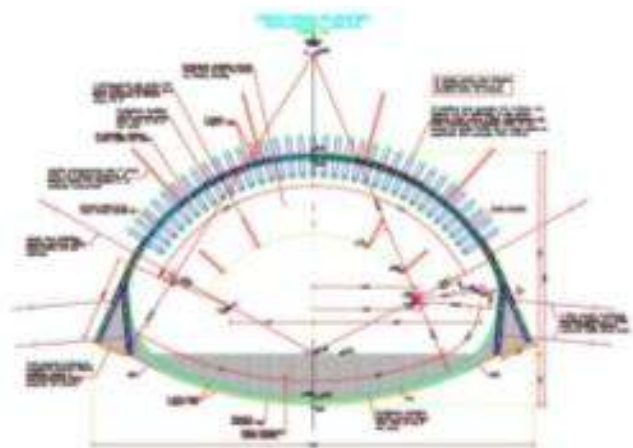
- Use of forepoles and spiles
- Excavation in two phases
- Pipe jacking technique

Client

AKTOR S.A.



Trapeza tunnel entrance portal



Top heading excavation geometry



Tunnel's face – Grey Marl