PÖYRY CASE SUMMARY

Emisor Oriente wastewater tunnel
Consultancy and technical assistance during construction
Mexico

Client
CONAGUA (National Water Comission)

Services
Specialized technological assistance for the excavation systems:
- Induction, follow up and control of the excavation planning
- Identification, analysis and management of the risks associated with the excavation process
- Follow up and evaluation of the tunneling machines performance
- Control, evaluation and follow up of the data obtained from the operation of the tunneling machines through the Tunnel Construction Management System 2DOC
- Assistance to prevent and solve adverse situations during the tunnel construction

Services period
2010 - 2012

Description
Mexico City is one of the largest urban conglomerations in the world, due to its size and growth rate, needs large-scale infrastructure for water drainage.

This has led Mexico’s government to develop a major hydraulic infrastructure project. The main component of this project involves the construction of a new drainage tunnel, the “Tunnel Emisor Oriente” which will run between Mexico city and the state of Hidalgo.

The new storm-water drainage main tunnel will be approximately 62 km long and have an internal diameter of 7 meters.

Along its length the tunnel will be connected to ground level by a total of 24 vertical shafts. The lengths of these shafts will range between 40 m and 150 m.

The main tunnel will be excavated using Tunnel Boring Machines (TBM) machines, specially designed to work in the presence of high water pressures, and equipped with an automatic system for placing the inner lining.

Pöyry’s role in the project is as tunneling specialists, and involves the provision of specialized technical assistance.

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