



Introduction to tunnelling – From design to construction

4-5 December 2019

Kenya

Objective: After a first session dedicated to underground space use, this 2019 seminar aims to go further in the tunnelling process with a presentation of the major issues related to the design and construction aspects. It will help the clients to understand how to manage underground projects and set up a suitable organization.

Day 1:

Session 1: Introduction and preliminary reminders on the global process

09.00-09.15: Welcome and Opening: ITA and concerned country representatives

09.15-10.00: The main stages in a tunnel project management

10.00-10.45: The key steps and the key players

10.45-11.15: Coffee Break

11.15-12.00: Case study 1: Example of an urban project process

12.00-12.45: Case study 2: Example of an hydropower project process

12.45-13.00: Questions and answers

13.00-14.00: Lunch

Session 2: Investigation and risk management

14.00-14.45: The main risks in a tunnel project and their management – existing approaches

14.45-15.30: The importance of ground investigation

15.30-16.00: Coffee Break

16.00-16.45: Case study 3: Example of ground investigation for a tunnel project

16.45-17.15: Questions and answers

Day 2:

Session 3: Introduction to tunnelling methods

09.00-10.00: The main tunnelling methods - Elements for the choice of the construction method

10.00-10.45: Logistics and environment impacts

10.45-11.15: Coffee Break

11.15-12.00: Case study 4: Example of conventional tunnelling

12.00-12.45: Case study 5: Example of mechanized tunnelling

12.45-13.00: Questions and answers

13.00-14.00: Lunch

Session 4: Organization and contractual aspects

14.00-14.45: Main issues for the client and the public authorities

14.45-15.30: The different contractual approaches

15.30-16.00: Coffee Break

16.00-16.30: Case study 6: Example of the New FIDIC Emerald Book

16.30-17.00: Discussion and closing remarks