



Training session on 'Risk Management during Design and Construction',

Kathmandu 11 – 12 December 2012

Tentative Programme

Objective of the course: This course aims to provide general information to young engineers and to update tunnelling professionals on topics related to tunnel design, construction and risk management. The course topics are presented in such a way to build the basic concepts of design and construction necessary for professionals to understand the importance and benefits of risk management applied to tunnelling.

Tuesday 11 December 2012

Session 1: Design (Harald Wagner)

- 08.30 – 09.00: Welcome & Opening
- 09.00 – 10.00: Principles of Tunnel Behaviour
- 10.00 – 11.00: Ground Recognition
- 11.00 – 11.30: Coffee break
- 11.30 – 12.30: Design Calculation 1
- 12.30 – 13.30: Design Calculation 2
- 13.30 – 14.30: Lunch break

Session 2: Construction (Jian Zhao)

- 14.30 – 15.30: Choice of the Construction Method
- 15.30 – 16.30: Conventional Tunnelling
- 16.30 – 17.00: Coffee break
- 17.00 – 18.00: Mechanized Tunnelling
- 18.00 – 19.00: Drill and Blast

Wednesday 12 December 2012

Session 3: Accessory (Felix Amberg)

- 08.30 – 09.30: Ground Improvement
- 09.30 – 10.30: Monitoring 1: Instruments
- 10.30 – 11.00: Coffee break
- 11.00 – 12.00: Monitoring 2: Pattern of Interpretation
- 12.00 – 13.00: Water drainage and Water tightness
- 13.00 – 14.00: Lunch break

Session 4: Risk Management (Piergiorgio Grasso)

- 14.00 – 15.00: General Aspects – Concepts
- 15.00 – 16.00: During the Design
- 16.00 – 16.30: Coffee break
- 16.30 – 17.30: During the Construction
- 17.30 – 18.30: Contracts
- 18.30 Closing