



Training session on ‘Site Investigation, Design and Construction of Hydro and Transport Tunnels’

Kathmandu 19 – 20 December 2013

Tentative Programme

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

Thursday 19 December 2013

Session 1: General (Soren ESKESEN)

- 08.30 – 08.45: Welcome & Opening
- 08.45 – 09.30: Link between Site Investigations, Design and Construction – Part I
- 09.30 – 10.30: Link between Site Investigations, Design and Construction – Part II
- 10.30 – 11.00: Coffee break

Session 2: Ground Investigation (Felix AMBERG)

- 11.00 – 11.30: Geological reference Model
- 11.30 – 12.30: Drillings
- 12.30 – 13.00: Questions and answers
- 13.00 – 14.00: Lunch break
- 14.00 – 14.45: Geophysical methods
- 14.45 - 15.30: Remote Sensing and Geotechnical investigations

- 15.30 – 16.00: Questions and Answers
16.00 – 16.30: Coffee Break
16.30 – 17.30: In Situ and Laboratory tests
17.30 - 18.00: Questions and Answers

Friday 20 December 2013

Session 3: Design (Eivind GROV)

- 08.30 – 09.30: Influence of construction methods in design approach
09.30 – 10.30: Empirical, Analytical and Numerical modelling methods
10.30 – 11.00: Coffee break
11.00 – 12.00: Special conditions analysis (fault zones)
12.00 – 13.00: Drill and Blast and Mechanized Design
13.00 - 14.00: Lunch break
14.00 – 15.00: Drainage, Grouting and Waterproofing
15.00 – 16.00: Permanent lining
16.00 – 16.30: Coffee break

Session 4: Construction (Felix AMBERG)

- 16.30 – 17.30: Performance Monitoring
17.30 – 18.30: Safety and Quality Control
18.30 – 19.00: Questions and Answers and Closing