

Slovakia

Name: Slovenská tunelárska asociácia ITA/AITES

Type of Structure: Non-profit organisation

Number of Members: Total number 48, number of corporate members 42



and sandstone formations, with a maximum overburden of 80m.

Milochov Tunnel

At the end of December 2021, the 1861m long Milochov railway tunnel was put into operation as a single track structure. This is the third tunnel on the Bratislava - Žilina corridor to be put into operation after the Turecký Vrch and Diel tunnels. Full operation of the tunnel - along the second track - is dependent on the connection of the old line with the new line outside of the tunnel area, which is expected in spring 2022.

ASSOCIATION ACTIVITIES DURING 2021 AND TO DATE

In cooperation with the Slovak Technical University in Bratislava, members of the STA committee have given lectures on tunnelling and underground construction.

STA together with Czech tunnelling association continued to publish the quarterly journal Tunel.

The activities of STA were limited in year 2021 due to the pandemic in Slovakia.

CURRENT TUNNELLING ACTIVITIES Ovčiarsko and Žilina Tunnels

The section of the D1 motorway - Hričovské Podhradie - Lietavská Lúčka - including the 2.7km long Ovčiarsko Tunnel and the 0.7km long Žilina Tunnel was open to the public on 29.01.2021.

Prešov Tunnel

After more than four years of construction, the Prešov Tunnel on the D1 Prešov West - Prešov South motorway section was put into operation at the end of October 2021. It is the eleventh motorway tunnel

in Slovakia. The 2.2km long Prešov tunnel was conventionally excavated using NATM, in rock consisting mainly of alternating clay

Prešov Tunnel



Bikoš Tunnel

In 2021, work continued on the second phase of the Prešov bypass, which consists of a 4.3km long section of the R4 expressway. It includes the 1.1km long Bikoš tunnel. In January 2022, work is continuing with the concreting of the secondary lining in the right-hand tunnel tube. The secondary lining in the left tunnel tube is complete, as well as the supporting structures for the excavated tunnels at the southern portal. The goal is to complete the roadway in both tubes during the autumn months of 2022 and to start installing the tunnel process equipment in August.

Čebrať Tunnel

Excavation works for both tubes of the 3.6km long Čebrať tunnel on the D1 motorway Hubová - Ivachnová continue from the eastern portal. In the southern tube, 3547.5m have been excavated leaving 77.5m. Approximately 25m more will be excavated from the east, with a widening of the profile of the tube end using a micropile umbrella.

Višňové Tunnel

The twin tube Višňové tunnel has a total length of 7.5km and is being built on the D1 Lietavská Lúčka - Višňové - Dubná Skala motorway section, in the Malá Fatra Mountains. After a change of contractor, work in the tunnel continues with the construction of the secondary lining.

STATISTICS

1. Length or volume excavated - % mechanized / % conventional during 2020

1400m, 100% conventional

2. List of tunnels completed in 2021:

Ovčiarско motorway tunnel, Žilina motorway tunnel, Prešov, motorway tunnel, Milochovo railway tunnel

EDUCATION ON TUNNELLING IN THE COUNTRY

- Slovak technical university in Bratislava, Faculty of civil engineering, Department of geotechnics
- University of Žilina, Faculty of civil engineering, Department of geotechnics
- Technical University of Košice, Faculty of Mining, Ecology, Process Control and Geotechnologies, Faculty of civil engineering

