

Turkey



Name: Turkish Road Association

Type of Structure: TRA is an open association. Its function is to promote, coordinate and spread studies and research in the field of roads, highways, motorways, tunnelling and other underground works.

Number of Members: As of January 1st, 2019, TRA has 496 members of which 432 are individuals and 64 are corporate members which represent Universities, Consultants, Contractors, Manufacturers and some of the other Governmental Organizations.

ASSOCIATION ACTIVITIES DURING 2018 AND TO DATE

"4th National Congress and Exhibition on Highways" was held on November 28-29, 2018 at the General Directorate of Highways Halil Rifat Pasa Conference Hall with great success.

CURRENT TUNNELLING ACTIVITIES

New Zigana Tunnel

The New Zigana Tunnel project in Turkey is currently under construction and when it is completed it will have a 14.5km length. The two lane tunnel will connect Gumushane and Trabzon provinces in Turkey's north east, and will be located at an altitude of over 1,200m above sea level. The construction of the tunnel will replace the existing route over the Zigana

Pass, which reaches an altitude above sea level of 2,032m.

Camlica Tunnels

The Camlica Tunnels project has been planned within the scope of highway transportation projects of Camlica Mosque, which is under construction at Camlica Hill, Istanbul. The tunnel network consists of three single tube tunnels with a total of 2,177m long. The actual excavation and support work is completed and the electromechanical works are continuing.

Dolmabahce-Levazim Tunnel

The Dolmabahce-Levazim Tunnel is the first tunnel of the Dolmabahce-Kilyos Tunnels Project. The excavation works

of this 3,872m long double tube tunnel are continuing. The design works of the remaining tunnels of the route are completed.

Northern Marmara Motorway Tunnels (2nd and 3rd parts)

The remaining parts of the Northern Marmara Motorway project consists of 9 tunnels. A total of 16,438m long double tube four lane tunnels are under construction. In some tunnels both excavation and final concrete lining were completed.

Dudullu-Bostanci Metro Line

The Dudullu-Bostanci Metro Line, planned to open in 2019, will be 14km long. The journey will take 21 minutes using the Dudullu-Bostanci Metro Line, which will have 13 stations. With the connection to be made at Kozyatagi Station, a transfer to Kadikoy-Pendik Metro Line will be provided.

FUTURE TUNNELLING ACTIVITIES

3 Level Big Istanbul Tunnel

The 3rd tunnel project to be constructed under Bosphorus is the Big Istanbul Tunnel, which is a 3-storey multi-use highway and railway undersea tunnel. The tunnel will have a diameter of 16.8m. The middle storey will be used for metro, the rest will be used by cars. The length of tunnel is 6.5km. The deepest point will



be 110m under sea level, and 45m under the bottom of the Bosphorus. The survey, project and engineering services tender of the project is done. The project is now in the design stage.

Dolmabahce-Kilyos Tunnels

The Dolmabahce-Kilyos Tunnels Project consists of three sections. In this sections there are 6 tunnels, which will be excavated by NATM. The total length of these four tunnels is approximately 20.4km. The excavation works of the Dolmabahce-Levazim tunnel have started.

Kagithane-Buyukcekmece Tunnels

In the Kagithane-Buyukcekmece Tunnels Project there are 8 tunnels. Two different methods will be used for these tunnels. The first two tunnels will be excavated by NATM and the others will be excavated

by TBM. The total length of these eight tunnels is approximately 26.7km.

Yenisahra-Bostanci-Kucukyali Tunnels

The Yenisahra-Bostanci-Kucukyali Tunnels Project consists of two sections. In this sections there are 2 double tube tunnels with a total length of approximately 6km.

ISKI Kagithane-Sefakoy Drinking Water Tunnel

The ISKI Kagithane-Sefakoy Drinking Water Tunnel project consists of two lines. Line 1 is 7.7km in length between the Kagithane-Eyup (Munzevi) districts. Line 2 which is 13.1km long is between the Islambey-Sefakoy districts. The 19.56km part of the 20.81km long water tunnel line will be excavated using TBM, the rest will be excavated using NATM or SEM.

