

Costa Rica



Name: ACROS - Asociación Costarricense de Obras Subterráneas

Type of Structure: Non profit, open association

Number of Members: 21 individual members, 3 corporate members

ASSOCIATION ACTIVITIES DURING 2021 AND TO DATE

- Short Course on Design and Construction of Tunnels, May 2021
- Participation in the GA of the ITA-AITES, June 2021

CURRENT TUNNELLING ACTIVITIES

Tunnelling activities in 2021 concentrated on the pipe jacked micro tunnelling for residual water treatment on the Project for Ambiental Improvement of the San Jose Metropolitan Area.

In the north sector of San Jose, 713m of pipe jack micro tunnels of 600mm diameter, and 37 shafts of 2.9m - 3.2m diameter and an average depth of 8m were constructed.

In the south sector, 3460m of pipe jack micro tunnels of 1200mm diameter, and

18 shafts of 4.5m – 5.5m diameter and an average depth of 10m were built.

In addition, a new underground pass of 790m under the Guadalupe roundabout was built with another underground pass of 900m under construction at the Bandera roundabout had reached 70% completion in December 2021.



FUTURE TUNNELLING ACTIVITIES

- Three Three tunnels for the fifth stage of the potable water supply project for the Metropolitan Area of San José, with a total length of 11.8km and 3.9m diameter.
- Two tunnels for storm sewage in the Metropolitan Area of San Jose, 1300m length and 3m diameter each.
- New underground pass of 60m under the national route No. 2 at the La Galera intersection

STATISTICS

1. Length or volume excavated - % mechanized/% conventional during 2021

Micro tunnelling 100% mechanized, underground passes 100% conventional

EDUCATION ON TUNNELLING IN THE COUNTRY

Course on Underground Works, as part of the Master Science Program on Civil Engineering of the University of Costa Rica (UCR)