

Geology

Cenkova tunnel

Project type

geologic - geotechnical survey

Location

Lenart-Beltinci, Slovenia

Year(s)

2007 - 2008

Services

Geological mapping of surface and aerofoto analysis
daily survey of excavation and preparation of maps of geological conditions and prognose
geological maps
deformations survey,
drilling of wells survey,
geological survey of cores
narration and interpretation of geotechnical measurements.



Investor

DARS d.d.

Cenkova tunnel is located on the route of the motorway section Lenart-Beltinci and is a two-lane tunnel by which due to the small wheelbase tunnel tubes was made an intermediate support pillar.

The tunnel is located in the Slovenske gorice region through Miocene clastic sediments, which are built mainly of clay, sand and gravel.

In the construction of the tunnel Cenkova, both intermediate shaft and the main pipe, was by Elea iC conducted a detailed geological mapping and surface aerofotogeologic analysis, daily geologic survey of geological conditions, with excavations inventory and deformations monitoring (convergence), from which a geological map of geological conditions and the prognose map were made. Survey of drilling and wells as well as inventory of inkilometers and monitoring and interpretation of geotechnical measurements were also made. This has increased the reliability of forecasts of geological - geotechnical conditions and served as a basis for detailed adjustments of support measures.