



1606 SOFIA

6, YAKOV KRAJKOV, Str

Tel/fax: 02\831 0564

Email: office@nsproject.bg

CONTRACTING AUTHORITY: BELOGRADCHIK MUNICIPALITY

CONTRACTOR: "NS PROJECT" Ltd.

OBJECT: "Current repair and artistic lighting of" Magurata "cave with rock paintings from the Bronze Age", Belogradchik municipality, Vidin district "

PART: ARCHITECTURE

PHASE: CURRENT REPAIR

CONTRACTING AUTHORITY:.

Mayor of Belogradchik Municipality

CONTRACTOR:

.....
Eng. Silvia Fandakova

Manager

PROJECTOR under Art. 165 from the Supplementary ARCH.:

/ arch. Anton Vassilev /

Compiled:

/ arch. G.Popova-Mancheva /

ACCORDING
TO ORIGINAL



EXPLANATORY NOTE

CONTRACTING AUTHORITY: BELOGRADCHIK MUNICIPALITY

CONTRACTOR: "NS PROJECT" Ltd.

OBJECT: "Current repair and artistic lighting of" Magurata "cave with rock paintings from the Bronze Age", Belogradchik municipality, Vidin district "

PHASE: Current repairs

PART: Architecture



Location: village of Rabisha, Belogradchik municipality

SITUATION :.

The present work has been carried out under the assignment by the Employer - Belogradchik Municipality in connection with the realization of artistic lighting and current repairs in the cave "Magurata"

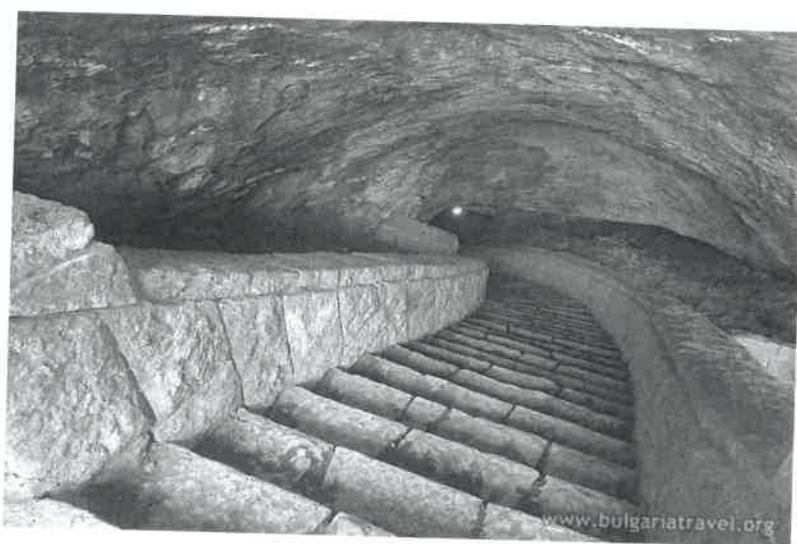
An architectural filming and exploration of the cave was carried out.

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Magura cave is located in northwestern Bulgaria, 17 km from Belogradchik, in the limestone Rabishka mogila (461 m above sea level). It is one of the largest and most beautiful caves in Bulgaria. It consists of a main gallery oriented southwest-northeast and three side branches. The total length of the open galleries is about 3 km. Along the tourist route there are more than 150 specific formations with different spatial orientation and illumination possibilities. The temperature in the cave is constant at 11-12° and the humidity is 55 to 98%.

The object of the development is registered as an immovable cultural value of "National significance", by virtue of Order № РД9Р-11 dated 10.11.2017, with classification of group archeological and artistic immovable cultural value. The cave and the surrounding area are declared a natural landmark. The total area of GACCCD is 846,532 decares.



photos: www.bulgariatravel.org.

According to geological studies, the formation of the cave began about 15 million years ago. In one of the halls are revealed prehistoric drawings, carved in the rock and painted with guano (manure), which have been preserved today due to the lower humidity, unlike the other halls in the cave.

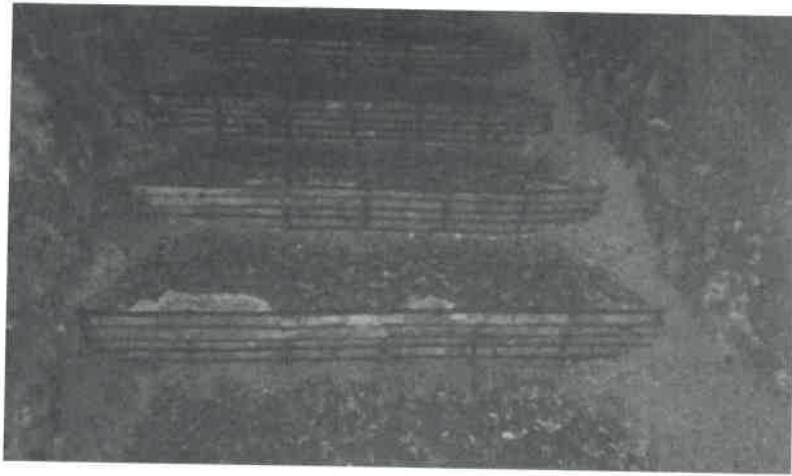
The cave has rich in form and size formations - stalactites, stalagmites, stalactites,antro pockets, cave pearls, "cave milk". It is home to a wide variety of bats.

One of the cave galleries is also used to produce champagne wine that matures under natural conditions similar to those used in the production of French champagne. The hall that is used for the aging of the wine is separated by a artificial wall - without access from the tourist route.

The public building solutions have been made in the cave since 1961. and need to improve their operational performance and ongoing repairs due to their compromised condition. Lighting is poor and in poor condition, a large number of lighting fixtures are not working and are not in the proper state, leading to a difficult passage on the tourist route. The metal rails have been rusted and need to be cleaned in some places - replacement with new ones, and some sections of the track are missing and new ones need to be added to ensure the safe passage of the groups of people along the track.

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In the "Gallery with drawings" the steps are broken, the reinforcement that forms and maintains them is rusty and needs to be processed because of its compromised condition.

In order to improve the physical condition of the alleyway network and in order to safely pass the flow of tourists, the following activities are envisaged:

- Replacement of lighting fixtures is foreseen due to the large number of non-functioning ones, introducing modern energy-efficient light sources and lighting fixtures, according to the specific heavy conditions of work. Lighting will be "cold" sources (LEDs), and the power, focus, and operating mode of the spotlight should be consistent with the habitat of the bats.

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- Cleaning and anti-corrosion treatment of existing railings, and new places will be added where necessary;
- Anticorrosive treatment and repair of the steps in the Gallery with drawings. Filling of the formed "pockets" with earth mass, extracted from the excavation works made during the drilling archeological studies;
- Replacement of the grille metal door, located at the entrance to the Gallery with the drawings due to its extremely poor amortized state. The holes need to be horizontal (at 20 cm) to ensure that the bats are unobstructed;
- The metal staircase, located in the "Oriental City" gallery at a height of 4,40 meters, is dampened due to rust and long-lasting use, resulting in the risk of accidents in the service of lighting fixtures;
- Restoration of damaged stone pavement where it is compromised (in case of previous installation of metal railings);

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