

## **Technical Specification of the Works**

### **Construction of the Regional Educational and Consultation Apicultural Centre**

The subject of performance is the complete construction of the Regional Educational and Consultation Apicultural Centre building according to the project documentation and in accordance with the Bill of Quantity

#### **Current situation**

The building site is situated on the edge of the intensive development of Vake District. From the south, it is defined by the access road and from the north by steep inaccessible terrain located above the local waterway. The land is fenced and is equipped with all underground utilities. There is an active geomonitoring of the land done on the plot. On the plot there is existing newly planted greenery.

#### **Construction**

The new building constructed for the needs of the beekeeping association is designed according to the investor's requirements as a two-storey reinforced concrete skeleton that is covered with a wooden barrier with an east-west orientation. The length of the tract is approximately 35 meters while the width is 15.5 meters.

The attic space is to be used as classrooms/lecture halls. Outside of the building at the level of the attic rooms, there is a gallery allowing for increased capacity and better use of outdoor areas. The gallery simultaneously serves as a fire escape route. In the eastern part above the main entrance, is located a terrace at the attic level protecting the entrance from the sun and the rain. The total building height is 8.3 meters.

#### **Classification of works**

##### **A. Construction works**

- Land works
- Foundation
- Construction elements
- Roofing structures

##### **Interior - Architectural part**

- Floor
- Walls
- Internal handling work
- Openings
- Covering the facade
- Roof

**B. Internal water supply, sanitary equipment**

- Cool water
- Hot water
- Drainage

**C. Internal power supply**

- Main dispensing shield MDB, DB1.2
- Furniture
- Light
- Earthing

**D. External sewerage, water supply**

- External water supply
- External sewerage

**E. Fire alarms****F. Video monitoring system****G. Cooling and heating**

- Heating
- Fan coils
- Air ducts, conduit and assistive material

**H. Computer and telephone network****I. TV network****J. Ventilation****K. Outdoor lighting****Disposition**

The ground floor of the building is organized along the central corridor, which is purposefully expanded for the purpose of gathering visitors. They can choose to check in at the store, offices, demonstration cabinet of beekeeping, or a block of labs mainly serving the professional public.

In the central part of the building, there is a staircase leading to the attic and shared toilet. In the western part, there are toilets with showers intended for the staff.

The building can be progressively developed towards the west by completing the guest rooms toward the staff toilets and the entire southern façade can be covered with a greenhouse which can serve at the same time as another dispersion area of the central corridor.

## **Supporting structure**

The structure consists of the reinforced concrete skeleton laid on the spread footing foundation. The roof truss is designed as a wooden rafter system laid on reinforced concrete beams.

## **Filling**

The backfilling is non-bearing and will be made of solid bricks, which will contribute to creating the desired character of the building.

New hole-fillings are designed from replacement materials - PVC, laminate, MDF, windows and doors of the external cladding are made of plastic or aluminium. The facade is covered with bricks.

## **Interior**

The surfaces of the part of the floors are made of ceramic and stone tiles, the type of tiles and the tile layout are provided. The ground floor main hallway is equipped with stone tiles. As for laboratories, the linoleum was determined to be used. Lighting is specified and built-in furniture is outlined – reception, work desks, kitchenette.

## **Technical equipment of the building**

The building will be heated by a radiator hot water system connected to the domestic hot water. Gas is the source of heat.

A part of the project is a cooling system consisting of local units with recuperation. Low-voltage wiring and data network will enable, inter alia, electronic security of the building and of the plot.

The construction is designed to be accessible to persons with reduced mobility.