

TECHNICAL DESCRIPTION

LOCATION AND THE FACILITY:

The existing business facility, Cultural Center in Mosna is located on cp. No. 2825/2 CO Mosna, municipality of Majdanpek. Floors of the existing facility are P + PK, total gross area 219,00 m².

The existing facility is free-standing, and the basic rooms are event hall and local administration offices. By the facility of Cultural Center at the same cadaster lot there is a facility of another beneficiary that is not subject to reconstruction.

The subject of the design for implementation is reconstruction and redevelopment of the attic area. In the past years, there was the need for space to accommodate the staff for emergency situations. The adaptation of part of the existing facility has been planned to place the fire truck; the area on the floor above the garage is planned for the cloakroom and meeting room for the staff for emergency situations. Extension of the existing hall on the ground floor creates a multifunctional area with the additional contents for various gatherings, events, celebrations and recreation. The hall has the capacity of using a mounting stage, made of prefabricated stage elements. Adaptation of the floor intended for the office area is planned above one part of the existing facility. The facility has three formed and functional unities that are inter-connected providing various uses depending on the needs of the future beneficiaries. Total floors of the newly-designed structure are GF+1, total net area 540,65 m².

CONSTRUCTION:

Basic constructive system of the existing facility is a massive one and is made of walls in two orthogonal directions. Mezzanine and roof construction of the existing facility are wooden ones and the complete reconstruction is required.

The facility is founded on both the new and the existing strip foundations with the width of the foundation strips of 70 cm.

Reconstruction of the constructive system by building reinforced concrete bond-beams is planned within the existing part of the facility, as well as the bonding with the constructive system of the new part of the facility.

Mezzanine construction is built of reinforced concrete, except for the mezzanine construction below the attic area of the four-sided roof of the tower that is made of wood.

Roof construction above the hall is two-sided and is constructed from primary steel girders, bars and secondary girders over which the trapezoidal tin is placed. Single miter roof with the reinforced concrete slab is planned above part of the facility intended for the offices. Part of the facility intended for accommodation of the staff for emergency situations, is planned as an individual unit with the four-sided roof and unused attic area. The roof construction is wooden one made of the sawn white wood timber. Roofing for all areas is made of the coated profiled tin imitating tiles in dark-ray color. Coated gutters for collection of atmospheric precipitation in dark-gray color are planned by the design.

Hollow blocks are planned for building adapted parts. Partition walls are built with the solid brick.

MATERIALS AND WORKING UP:

Materials and the method of creating the thermal protection are in compliance with the rules and valid norms (roof, façade walls, mezzanine ceilings and floors).

Exterior facing is implemented as the contact façade. Over the glue and the net on styrofoam it is planned to perform decorative finishing with the acryl mortar in white color. Finishing of the façade according to the graphic attachments is performed by the techniques in decorative façade mortar.

Finishing of the interior walls and ceilings in the facility is the plastering with the flexible mortar. According to the design, the ceilings at the offices at the first floor will be lowered and made of Gypsum-cardboard panels and the ceilings at the Firefighters station will be made of Gypsum-cardboard panels with fireproof, F30, on the bottom, fixed to the wooden construction.

Flooring of the facility will be done with the granite ceramic tiles, except the floor in the garage and the hall, where the final, leveling layer is grinded to reach a smooth surface, in the hall colored with ACID color.

INSTALLATIONS IN THE FACILITY:

The newly-designed facility includes the following installations:

- Water-supply and sewage installations,
- Electric installations,
- Thermo-technical installations.

According to the design a new sewage drain and a bio-hole for feces will be constructed in compliance with the regulations.

Water-supply is provided by connecting to the existing water-supply network.

Two fire extinguishers, type S-9 are planned for the protection against fire on the upper floor while four fire extinguishers, type S-9 and one fire extinguisher, type CO2-5 for dry-extinguishing are planned for the ground floor of the facility.

The existing connection to the electricity network is under reconstruction. According to the design, procurement of a three-phase meter and a new power-supply conductor are planned. It is also planned to make the installation of lightning-conductor, security lights, as well as the installation of the supporting equipment in compliance with the standards and norms on safety.

Low-voltage installation in the facility will also be reconstructed; the connection to the TT network already exists.

The facility will be heated through central heating system operating on bio-mass. Floor heating is planned for the hall and the supporting premises; convector heater is planned for the garage, while radiators are planned for other rooms and offices. Cooling of the premises is also planned through the split air-conditioners; "forced" ventilation will be provided for the premises requiring it, depending on their purpose and position within the facility.

All installation systems are described in detail in particular parts of the implementation design.