



LIFE for Seeds (LIFE20 NAT/SI/000253) – Conservation of priority grassland habitats in Slovenia through the establishment of seed bank and in situ restoration

Basic project design for the arrangement of seed storage facilities at Infrastructure Centre Jablje

Deliverable – Action A.2 - Developing strategy for seed and seed mixture storing

Authors:

dr. Branko Lukač

dr. Jelka Šuštar Vozlič

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This document is a short abstract for the purposes of LIFE project and it refers only to the arrangement of the drying chamber and seed bank storage. The document is prepared based on a detailed design (technical report) made by Pro Plan, Simona Kosi s.p. in Slovenian language.

Summary of technical report

The Agricultural Institute of Slovenia plans to perform the necessary maintenance and reconstruction work on tract C of the administrative building in the complex of the Jablje Infrastructure Centre. The foreseen reconstruction works include the restoration of the facade of the entire building, the restoration of the platform (construction of a new platform or courtyards in front of the building), and the construction of a space for storage and treatment of seeds (seed bank, cold store, freezer, laboratory). Within the reconstruction of tract C, an appropriate floor structure and implementation of a structure that will allow attic space is foreseen. Construction of new installations (electrical and mechanical installations) is planned. Within tract C, installation of new betting furniture (windows, doors, rolling shutters with a personal passage) is foreseen. The facility has all communal infrastructure, as well as access to the public road. In addition, it is connected to the public water supply and sewerage system network, and the ENN network. All the connections are located on the investor's land.

Object location:

Grajska cesta 1a, 1234 Mengeš. The building is north-south oriented. The object is located on a plot with land numbers 758 / 1-6, all under cadastral municipality 1940 Loka, in the LO editing area 08 / IK / 1 Jablje, for Jablje, with the intended use of classification IK-areas for industry and agriculture, where the construction and reconstruction of buildings with classification CC-SI 12630 for education and scientific research are allowed. With the renovation of the building, the dimensions of the building and other urban indicators will not be changed. The area is regulated by the detailed municipal spatial plan for the area LO 08 / IK / 1 Jablje (northern part).



Picture 1. Front view (left) and interior (right) of the object before reconstruction and arrangement of field laboratories, drying and seed storage facilities.

Introduction

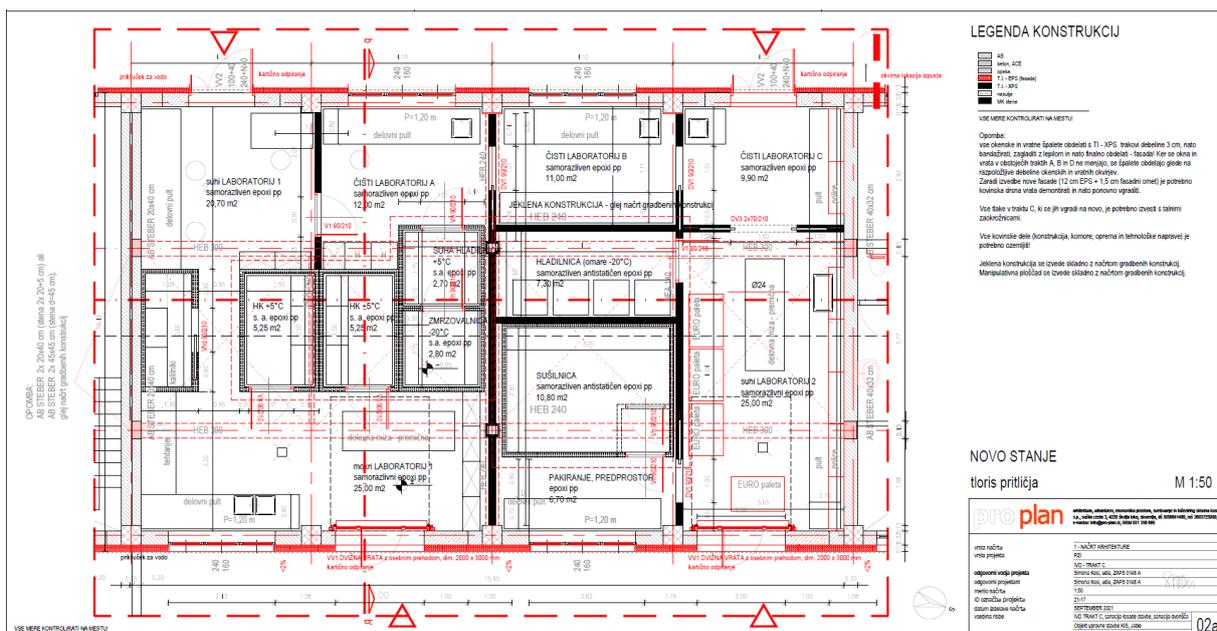
Arrangement of seed drying and storage facilities (action C4 of LIFE FOR SEEDS) is only one part of a large-scale reorganization of the Infrastructure Centre Jablje. The building was built around 1959. The renovation proposal foresees a solution that will also include earthquake reinforcement of the building, taking into account the possible additional use of the currently unused attic. Tract C, which is foreseen for renovation for the needs of the Crop Science Department, is currently used as a shed and mechanical workshop. In the left part of the hall, the construction of the working laboratory (wet and dry part) is planned, including refrigeration chambers, transitional chamber with a freezer, and germination chamber. On the right side of the hall, dry laboratories with storage space, space for seed treatment, a larger dryer, and a cooling chamber with a freezer will be located.

Technical equipment of the drying chamber and seed bank

Within both sets of laboratories (wet and dry), the use of a special room with a controlled environment is also foreseen – drying chambers that provide adequate temperature regime and climatic conditions (low humidity) for professional work.

Description of the controlled environment room

Walk-in drying chambers will be assembled on-site, from pre-prepared sandwich panels. Doors made from the same material will be installed on-site, installations for connection to the electricity network will be prepared, and space for external condensing units will be provided (split system; can be outdoor, freestanding, or attached to the facade). Sufficient ventilation will be provided for the room, in which the refrigerators and freezers will be located to dissipate the heat generated due to the operation of the devices. However, here it will not be necessary to ensure the conditions like in the cold rooms.



Picture 2. Ground plan for the reconstruction of the building.