DESCRIPTION OF THE SUBJECT OF COMPETITION, DESCRIPTION OF THE PROJECT LOCATION, ASSUMPTIONS AND FUNCTIONAL AND UTILITY GUIDELINES

Attachment M1 to the Competition Rules for the development of

ARCHITECTURAL AND URBAN CONCEPT OF CENTRUM LITERATURY I JĘZYKA – PLANETA LEM

(CENTRE FOR LITERATURE AND LANGUAGE – PLANET LEM)

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1. DESCRIPTION OF THE SUBJECT OF COMPETITION

The subject of the Competition was described in Chapter 2 of the Competition Regulations and it consists in development of the concept of a building or building complex for an project entitled "Reconstruction of the existing building of the former "Salt Depot" and construction of a new building, including internal systems, technical and communication infrastructure, as the implementation of the "Literature and Language Centre – Planet Lem" project, on plot no. 61/5, 61/8, 61 / 14, 61/17, district 13, Podgórze, at ul. Na Zjeździe 8 in Kraków.

2. COMPETITION AREA

2.1 Location

2.1.1. The area covered by the competition is located in the southern part of Kraków, in the Podgórze district (coordinates 50°02'52 "N 19°57'19"E). From the western side runs ul. Na Zjeździe, also providing communication services. This is four-lane street (two lanes for each direction) with a separate tramway track in the middle. On the northern side there is a communication hub, and further on a flood bank, Vistula river and the Powstańców Śląskich bridge. From the eastern side runs a railway line to the Main Railway Station in Krakow, Kraków Zabłocie railway stop. From the south side, quarter development typical for its period, residential and commercial.

2.1.2. The most important places in the immediate vicinity:

- Ghetto Heroes Square (about 50 m)
- Powstańców Śląskich bridge (about 80 m)
- Podolski Boulevard along the Vistula River (about 100 m)
- Kraków Zabłocie railway stop (around 100 m)
- Art Documentation Centre named after Tadeusz Kantor - CRICOTEKA (about 250 m, www.cricoteka.pl)
- MOCAK Museum of Contemporary Art in Kraków (about 350 m, www.mocak.pl)
- MHK Oskar Schindler's Enamel Factory (about 400 m, www.mhk.pl/oddzialy/fabryka-schindlera)
- Father Bernatek pedestrian and bicycle footbridge (about 520 m)
- Andrzej Frycz-Modrzewski Kraków Academy (about 600 m www.ka.edu.pl)
- MHK Podgórze Museum (about 650 m, www.mhk.pl/oddzialy/muzeum-podgorza)

2.2 Existing state

2.2.1. The area covered by the competition is located on the former, oldest (XIII century) salt trackway from Wieliczka. In the central part of the plot, built in 1787, the building of the former "Salt Depot", which was part of several warehouse buildings of the salt depot in Podgórze functioning for sure from the XVII-th century (and perhaps even earlier). Also a port on the Vistula river belonged to the depot. In the second half of the XIX-th century, barracks and stables for the Austrian army operated in the object. At the beginning of the XX-th century, in connection with the construction of boulevards, two other warehouses belonging to the depot (older and larger) were demolished,

leaving the building of the "Salt Depot". During the war, the building was the seat of underground soldiers. Currently, the building is included in the municipal register of monuments of Kraków (no. 3746, the so-called salt warehouse, building associated with the Krakow Fortress). Larger part of the area around the building is currently used as a car park. In the north-eastern part of the plot there is also a garage and storage building designated for demolition.

2.2.2. Individual trees and shrubs are spotted in the area, as per the inventory of greenery attached to the regulations.

2.2.3. The local spatial development plan for the "Salt Depot" area is in force (Resolution No. LXXVII/1915/17 of the Town Council of 28 June 2017).

3. FUNCTIONAL AND UTILITY ASSUMPTIONS AND GUIDELINES

3.1 Land development functional guidelines

3.1.1. The function described in the following program should be located within the existing, antique building designated for reconstruction of the former "Salt Depot" and in the new building. The only restriction in terms of the form of building are the provisions of the local zoning plan for the "Salt Depot" area, formal (compliance with laws and regulations), technical and financial conditionings. It is recommended to functionally combine the building of the former "Salt Depot" and the new object, in a manner enabling the implementation of exhibition scenarios provided for in the object.

3.1.2. It is recommended to use the yard in front of the building of the former "Salt Depot" (from the west side) as a public square with greenery and the possibility of organizing outdoor meetings. It is allowed to locate nearby a small number of public/VIP parking spaces.

3.1.3. It is required to provide for a non-collision stopping place for the coach to allow passengers to disembark.

3.1.4. The garden function should be provided within the area; space for recreation and relaxation.

3.1.5. Competition participants are expected to take into account the relationship between the project site and the Vistula river (especially due to the historical context of the place), between the site and the road transport system and between the site and the railway line and Kraków Zabłocie railway stop (especially due to communication possibilities and acoustic background).

3.2 Functional guidelines for the building

3.2.1. **Main Exhibition.** An interactive exhibition inspired by Stanisław Lem's thoughts heritage and the role of literature as a form of a narrative about a human being will constitute a central element and the basic function of the object, easily visible both inside and outside the building. The scenario of the main exhibition constitutes Attachment no. M2 to the Competition Regulations.

3.2.1.1. Exhibition halls. The optimum area of 1000-1200 m^2, with the recommended option of dividing it into five galleries planned for visiting in non-linear/discontinuous form as per the requirements of the scenario. The optimum height is 5-6 m. Exhibition halls should be additionally illuminated with natural light.

3.2.1.2. Exhibition room warehouse. The optimum area is 170-200 m^2.

3.2.2. **Multifunctional space.** The primary part of the building is a multifunctional space, integrated with the communication system. Implementation of the exhibition, the subject of which will be generally understood communication, especially language communication, is planned within the multifunctional space. The content-based assumptions of the exhibition constitute Attachment no.

M3 to the Competition Regulations. The following areas should be provided within the multifunction area:

3.2.2.1. **Auditorium** for at least 400 people with the possibility of dividing it into two halls in 200/200 proportion and their autonomous use. The optimum height is 6-8 m.

3.2.2.2. **Two workshop halls** for at least 60 people each, with possibility of further subdivision and autonomous use.

- Hall 1 – sound and speech zone with a new media zone – orality and secondary orality,
- Hall 2 – literacy zone – zone of writing, silence and work with the text.
  Technical requirements for halls: computer equipment for min. 20 people (possibility of hiding in desktops), 2 projectors and image display panels or 2 multimedia panels and Virtual Painting/Spray system)

3.2.2.3. **Multimedia library zone.** The optimum area of 200 m^2. Within the space, elements of a permanent exhibition about language, sound, speech and image zone, zone named "Orality" and "Secondary Orality and New Media", new media zone – secondary orality (zone of various communication channels and codes, sound and image zone), including, among others: audio cabins (min. 6), projector and space for projection, a wall enabling mounting of exhibition elements with an area of min. 40 m^2, Interactive screen – map of dialects with possibility of listening to recordings and watching movies, also in the form of audio monitoring at stations equipped with headphones (min. 10 stations). Model of a moving globe of 3x4 meters. Wall for murals (10X10 m). Technical requirements for permanent exhibition about language: 4 projectors for 3D holograms with required equipment, 4 fog screens, 15 touch screens with software, 10 multimedia projectors, iFloor system - interactive floor and iWall wall system; LED floor, 2 interactive touch tables - iTable.

3.2.2.4. **Multimedia studio.** The optimum area of 180 m^2, with the possibility of dividing it into two smaller multimedia studios. Within space, elements of the permanent exhibition about language, zone named "Secondary Orality and New Media" (word, image and sound zone), including min. 10 free-standing computer stations with touch screens. Walls of the studio adapted for installation of additional exhibition elements. A wall for projections of murals and graffiti (10X10 m). Technical requirements for permanent exhibition about language: 4 projectors for 3D holograms with required equipment, 4 fog screens, 15 touch screens with software, 10 multimedia projectors, iFloor system – interactive floor and iWall wall system; LED floor, 2 interactive touch tables – iTable.

3.2.2.5. **Library and reading room zone.** The optimum area of 350 m^2. Within space, elements of the permanent exhibition about language, zone named "Literacy" (zone of silence, individual work with text). As part of the exhibition, the projector and 10x5 m projection screen; showcases for exhibiting original manuscripts/old prints/prints; work stations with text, including min. 10 free-standing stations - desktops/showcases equipped with sliding magnifying glasses for unassisted work with text; 3x5 m wall with pull-out drawers and desks imitating the library catalogue; stereoscopic image (2x3 m); a place for kids' games – on the floor, a built-in scrabble game board (10x10 m), wall for graffiti/murals – street art (changeable), 10x10 m. Technical requirements for permanent exhibition about the language: 4 projectors for 3D holograms with required equipment, 4 fog screens, 15 touch screens with software, 10 multimedia projectors, iFloor system – interactive floor and iWall wall system; LED floor, 2 interactive touch tables – iTable and Virtual Painting/Spray system.

3.2.2.6. **Cafe and bookstore zone.** The optimum area of 350 m^2, equipped with a kids' corner, which can also be a remote work place.

3.2.2.7. **Temporary exhibition area.** The optimum area of 80 m^2.

Individual parts of the multifunctional space can be located in different buildings and on different floors, while maintaining internal communication. The design should assume the possibility of total separation from the multifunctional space by means of mobile walls; auditorium (3.2.2.1), workshop rooms (3.2.2.2) and multimedia studio (3.2.2.4). In addition, warehouses and rooms belonging to particular functions (located in their immediate vicinity) should be provided next to multifunctional space:

3.2.2.8. Auditorium backstage + 4 checkrooms (optimally with possibility of combining them) + 2 double translation cabins. The optimum area of 50 m^2

3.2.2.9. Warehouse for multifunctional space. The optimum total area of 200 m^2, it is allowed to divide it into smaller warehouses depending on the adopted functional layout (location) of rooms.

3.2.2.10. Multi-media library warehouse. The optimum area of 50 m^2.

3.2.2.11. Library zone warehouse. The optimum area of 50 m^2.

3.2.2.12. Café-bookstore back-up facilities. The optimum area of 40 m^2. A café-bookshop will be rented to an external operator.

Note! *It is recommended whenever possible to combine the* ***Main Exhibition*** *zone and the* ***Multifunctional Space*** *in the form of a spatial and functional axis that constitutes the central element of the Narrative Machine referred to in the permanent exhibition scenario and the world language tree referred to in the scenario for language and communication exhibition. This axis may take the form of a spatial sculpture visible from various locations of the object, communication path and/or other spatial solution.*

3.2.3. **Administrative rooms.** The optimum area of 200 m^2, estimated number of administration employees is 40 people.

3.2.4. **Meeting rooms.** As an optimum four rooms of 30 m^2 each, two available for administrative rooms and two for multifunctional space.

3.2.5. **Other surfaces** that should be provided in the building:

3.2.5.1. General communication; entrance hall (foyer) and communication layout suitable for the representative function of the object.

3.2.5.2. Object maintenance; checkroom, reception, information, cash desk, security room.

3.2.5.3. Social and sanitary facilities (service and public access); in accordance with applicable technical regulations.

3.2.5.4. Technical rooms; water meter and separator, electrical switchgear, telecommunications, heat centre, server room (recommended location not in the basement and not on the top floor), ventilation room, utility rooms, waste collection room.

3.2.6. **Underground car park.** Recommended car park operation using a ramp.

3.2.7. Other rooms and areas which are required as per participant's concept are allowed.

3.2.8. Number and size of lifts should be adapted to the building's layout and its users, whereas a lift/goods lift or passenger and goods lift servicing the main exhibition and a multifunctional space and connecting them to the underground garage should be provided for.

3.3 Pro-environmental solutions aimed at achieving high energy efficiency of the building

3.3.1. The client intends to construct a building/building complex that is optimal in economic and ecological terms, following the principle of sustainable development.

3.3.2. The building must be energy-efficient, i.e. reach the value of an annual demand for non-renewable EP primary energy for heating, ventilation, domestic hot water preparation at a maximum level of 45 [kWh/(m^2year)], at least according to the conditions for 2021 contained in § 329 point 2 of the Ordinance of the Minister of Infrastructure and Development of 17 July 2015 on technical conditions, which should be met by buildings and their operation (Journal of Laws of 2015 item 1422).

3.3.3. The contractor should take care/pay attention to:

- right selection of building materials,
- preferences for public transport and for bicycles (e.g. through a developed and properly located bicycle infrastructure),
- preferences for ecological vehicles (e.g. through charging stations for electric vehicles and allocation of a part of parking spaces for electric vehicles),
- reduction of "pollution" of the area with artificial light,
- optimum use of natural light/daylight (e.g. through properly designed transom lights, windows, as well as blinds, properly selected glazing transparency),
- smart lighting systems combined with natural light entering the interior,
- energy-saving LED lighting with the possibility of using a digital lighting control system, with individual intensity control as well as presence and daylight intensity detection,
- automatic lighting and air conditioning switching-off system, in each room, after leaving it – connection to the access control system;
- reduction of water consumption – both inside (through the use of appropriate and efficient fittings, through the use of "grey water") and outside the building (through appropriate selected plants – native species),
- rainwater management,
- application of solutions that reduce the consumption of hot water;
- application of renewable energy sources (e.g. through heat recovery from ventilation systems, preheating or cooling of ventilation air in underground piping elements (ground heat exchangers, etc.).

3.3.4. Building block should be shaped taking into account the functional needs and directions of the world in order to reduce unwanted heat gains in the summer and reduce heat loss in the winter.

3.4 Building's systems

3.4.1. It is planned to equip the building with the following systems:

- water and sewage system;
- central heating system;
- air conditioning and mechanical ventilation systems with heat recovery;
- electrical system;
- telecommunication engineering system;
- alarm system with monitoring inside as well as outside the building, including parking lots;
- low-current system, i.e. access control system, burglary and assault signalling system, fire signalling system; cctv system (monitoring, detector alarm system),
- fire protection system;
- central building management system – a BMS solution, including a central EMS (Energy Management System) system that allows real-time visualization of media consumption and measurements of water, energy consumption, etc.

3.4.2. In addition to the above systems, installations with connectors necessary for the functioning of a modern public institution performing planned functions must be planned and designed in the building.