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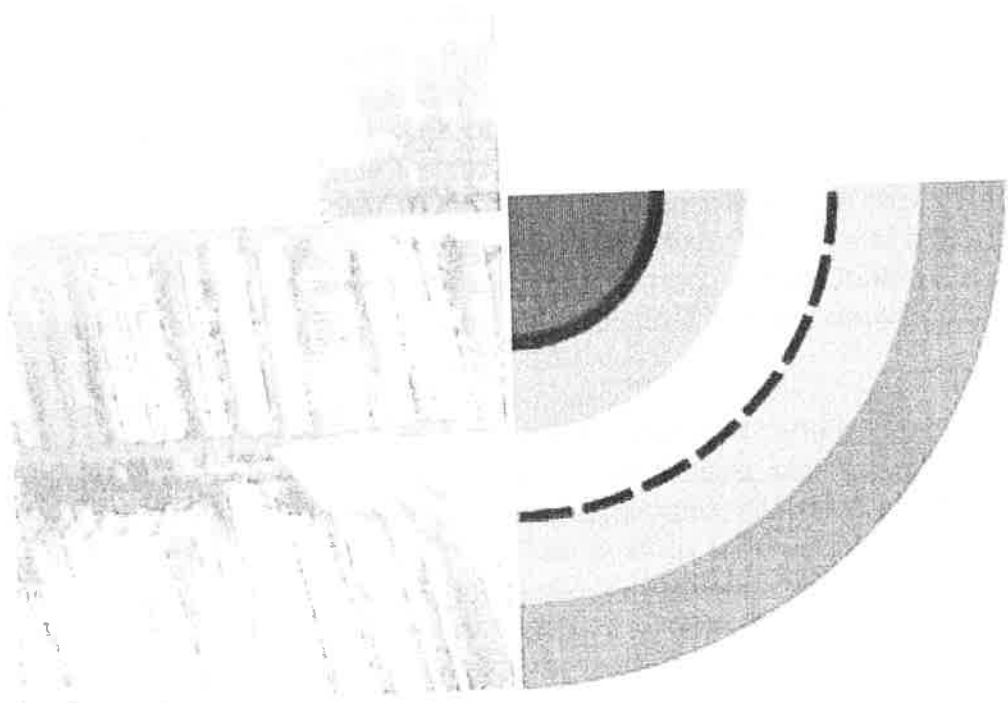
International Architectural Competition

**B**

# Competition Programme

for the Architectural Design of

the New Building of the National Library  
of the Czech Republic  
in Prague



# Competition Programme for the new Building of the National Library of the Czech Republic

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## 1 Town-planning and architectonic requirements for the construction

### 1.1 Territory development

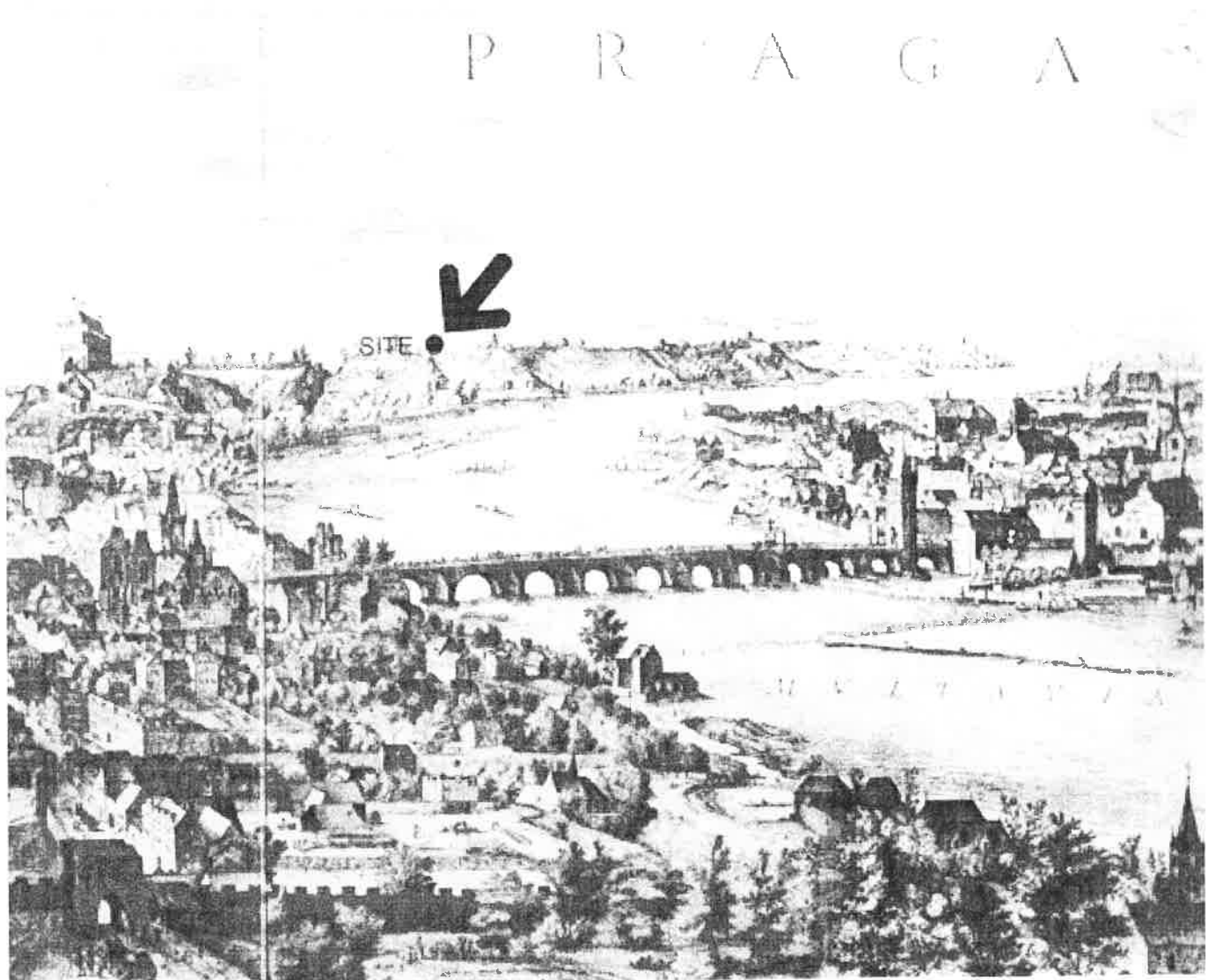
#### Introduction

The largest undeveloped area in Prague shows in its development a fascinating reflection of the transformations of the territory that thanks to its sharp terrain edge above the river competes with the most important territory units in Prague - Prague Castle, Vyšehrad and Vítkov. It is so distinct in the Prague skyline that already in the days that in no way can be characterised with any extreme romanticism and respect for beauties of nature, i.e. short after 1900, the natural character of its slopes constituted an obstacle for the "fatal" decision concerning the construction of a road from the city towards the north. Tenders of this type, where the road "Pařížská - Svatopluka Čecha bridge - north" is solved, do not appear after 1918. The idea of a tunnel had not been abandoned but it was moved further away from the historic centre. Contemplations to break through in this part might seem to be unrealistic and utopian if finished drawings showing this version were not preserved.

The territory itself is called Letenská Plain; philologically it is a name with certain "poetic" content - from the geographic point of view the place could also be called flatland, plateau, tableland etc. A name that is not limited strictly only to geographic or orographic understanding makes us contemplate whether even in this case "the town did not feel" an analogy for example to the territory behind the town walls in Paris (compare Paris et sa banlieue, Michelin Paris 1972, p. 54 : ..il n'y a que champs et marais... En 1667, Le Nôtre prolonge la perspective des Tuileries; toute la plaine, appelée Grand Cours, est plantée de rangées d'arbres. Ces calmes ombrages prennent, en 1709, le nom de Champs-Élysées). Like in Paris, the spectacular town planning axis in Munich

(Ludwigstraße) and in Berlin is also completed with a triumphal arc. These parallels with certain spiritual content - Elysian Fields, or content marking military victories in modern European towns (in connection to strong ancient Greek and Roman traditions), are naturally only meant at totally general level. Prague's Letná, with its history of military exercises, could rather be compared to Parisian "Champs-de-Mars" or to Munich's Maxmilian Platz around the year 1800 and later to the territory to the north of it, which was not developed with regard to military exercises and parades until the time of construction of contemporary Pinakothek der Moderne (2004). Prague also had large exercising ground in today's Karlín, where also the "Parisian" Invalidovna was established in the 18<sup>th</sup> century. Why this territory was later "devaluated as regards its content" is already outside the scope of this contemplation.

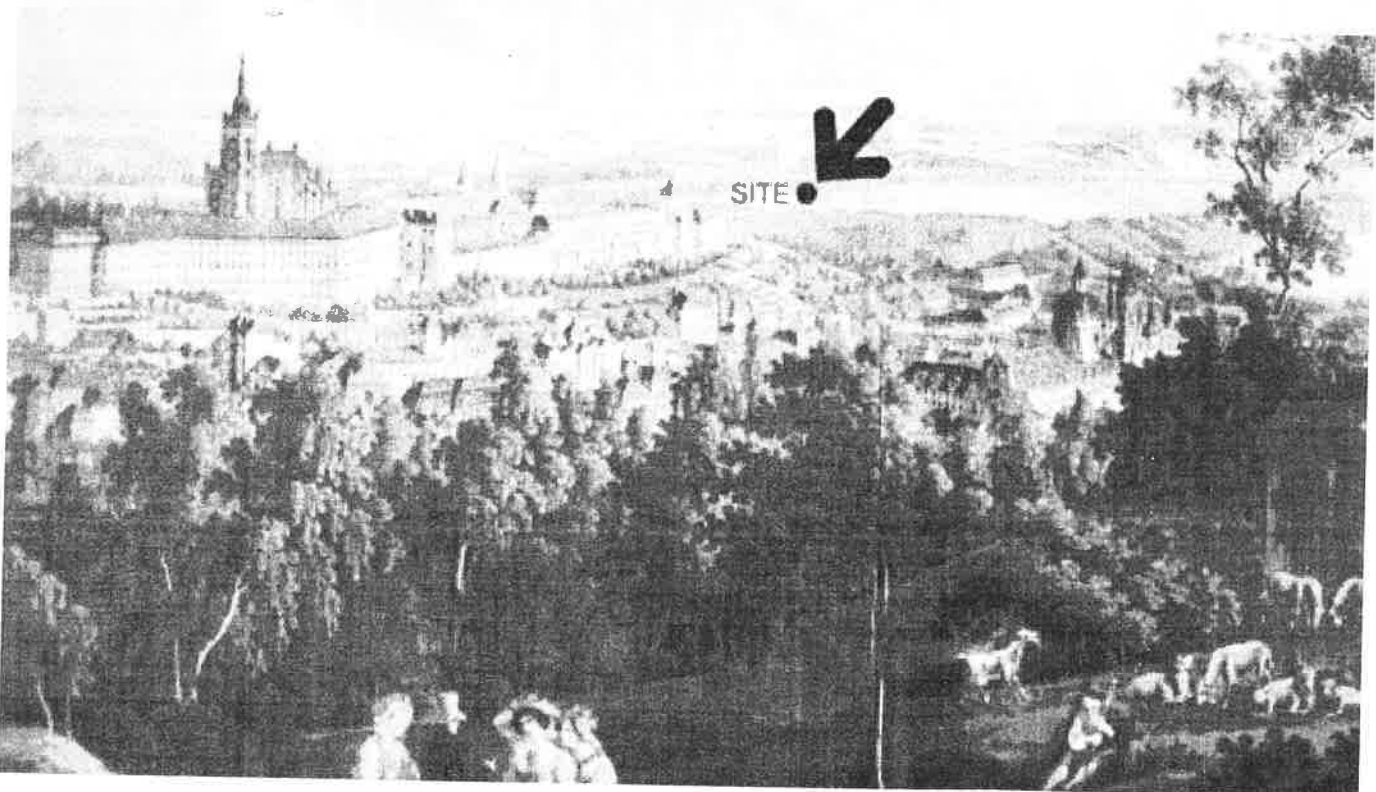
I dare to make these vague comparisons because the contemporary town-planning thinking has receded due to the cold-headed financial calculations (price per square meter of the land) from the ideas that were at the basis of the most important town-planning principles of pre-consumption Europe. Unfortunately to emphasise certain idea importance of the place we paradoxically get most of the arguments from the recent period - construction of the biggest statue of Stalin and existence of military parades, which as we known, for example in Paris are held on the Elysian Fields. Anyway, "the prestige of a place" is a term that is difficult to prove by means of exact argumentation.



Prague, Letná / Sadeler, 1606

Whereas the construction of the state gallery at the western edge of the plain was probably prevented mainly by the oncoming war (the building permission was issued on November 25, 1937), then we can assume that filling of the huge area totally with government buildings, buildings of central offices, buildings for schools and for residential purposes was probably prevented by certain timidity when facing such an imposing territory. Both the huge sports stadium and the cubist halls of residence, that were once standing on the plain, were constructions of completely "reversible" character. During the first republic thus this territory was only defined on its eastern edge by the Ministry of Interior and both museums. These are constructions that can be labelled as "ostentatiously monumental" although their placing in front of the natural "border" constructions of Holešovice was a certain sight devaluation of the older development (e.g. Fialka's neo-renaissance water station from 1888 hidden behind Havlíček's "juggernaut building", from which only its beautiful arcade gallery "sticks out").

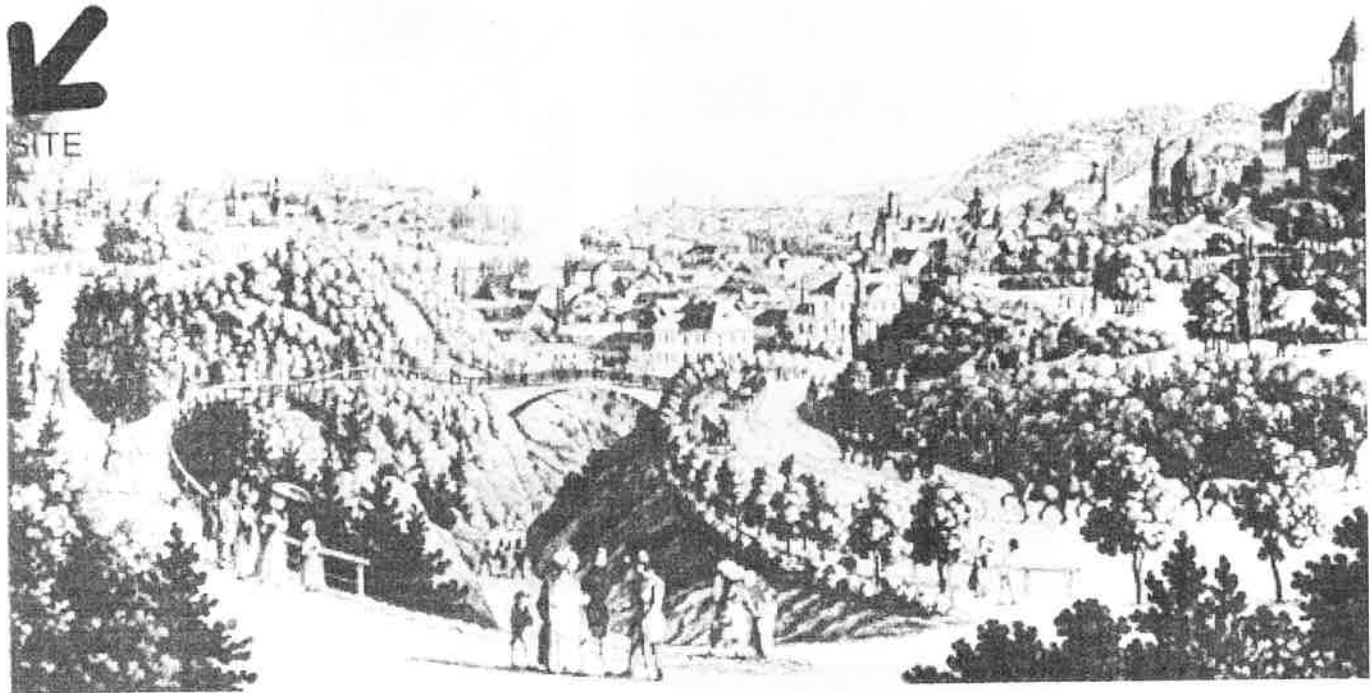
The last methodical comment concerns the change of Letná formation as regards its context. Whereas until the first half of the 19<sup>th</sup> century it was a territory right behind the fortification wall (extra muros) and like in other Baroque fortresses it was necessary to keep this area free, "unutilised", the situation changed radically at the moment when the plain started to be surrounded with continuous development of new Prague quarters (Holešovice from the 1880s, somewhat later Bubeneč and Dejvice). Letná was not a periphery any more and it became a free area inside the city. Town gardens are often called poetically as the "lungs of the town" - however, Letná due to its large area helped to give Prague a "dimension" of a city that Prague was gradually turning to.



Prague, Letná / Morstadt, 1830

## History of the place and brief history of construction activities

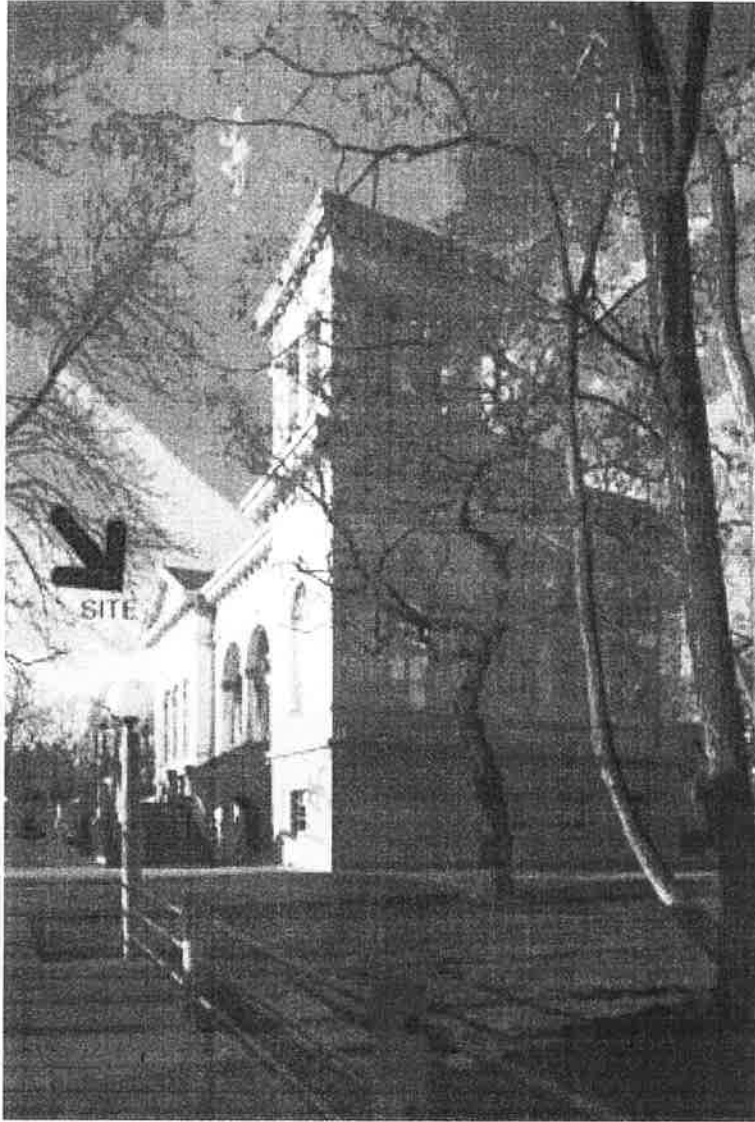
The analysis of Letná as a place of construction activity is not intended as exact description and assessment of the individual buildings from the point of view of history of architecture and as regards tenders as an analysis of the performance of the individual authors and "analogical" assessment of the work of commissions of that time - it is rather intended as an outline of ideas that this territory aroused in various generations of architects and investors.



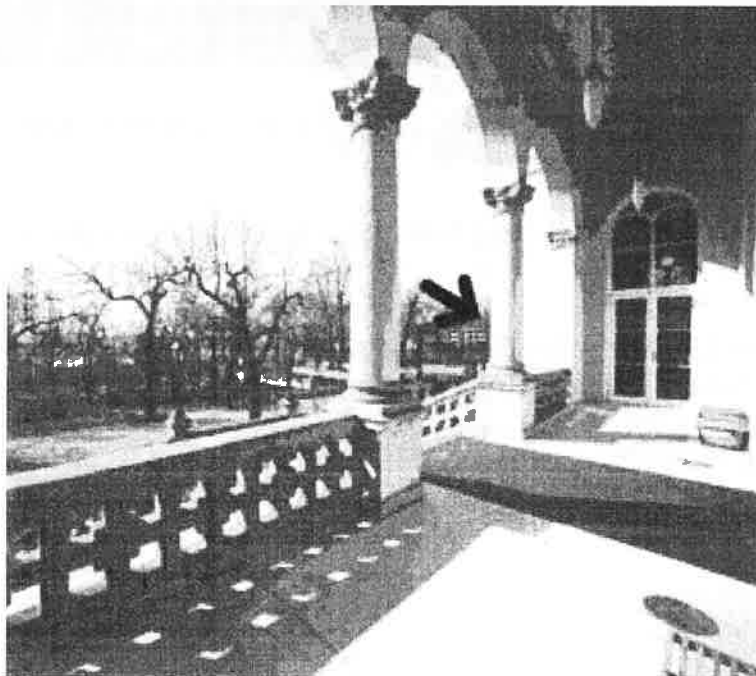
Prague, Letná / Morstadt, 1830

Until the second half of the 17<sup>th</sup> century, the only construction activities can be seen in the belt of Baroque fortification walls with bastions constructed near the edge of the Letná slope. Around the year 1715, inside one of the bastions, on the axis of today's Revoluční třída avenue, Count Valdštejn had a single-storey manor built with an attic semi-storey and with characteristic terraced material formation.

This territory probably belonged to the Valdštejn family already from the times of Albrecht from Valdštejn about whose construction activities in the area of Bubeň court we are informed. However, the appearance of the folly and its name "Belvedere" we only know from a period engraving - probably it was not fully destroyed by the French army in 1743 (because it is drawn in later plans of Prague) but its structural condition perhaps was not so good to be able to be used without problems during the construction of another building in roughly the same place - i.e. Ullmann's neo-renaissance manor from the year 1863.



**Little Castle / Ignác Ullmann, 1863**

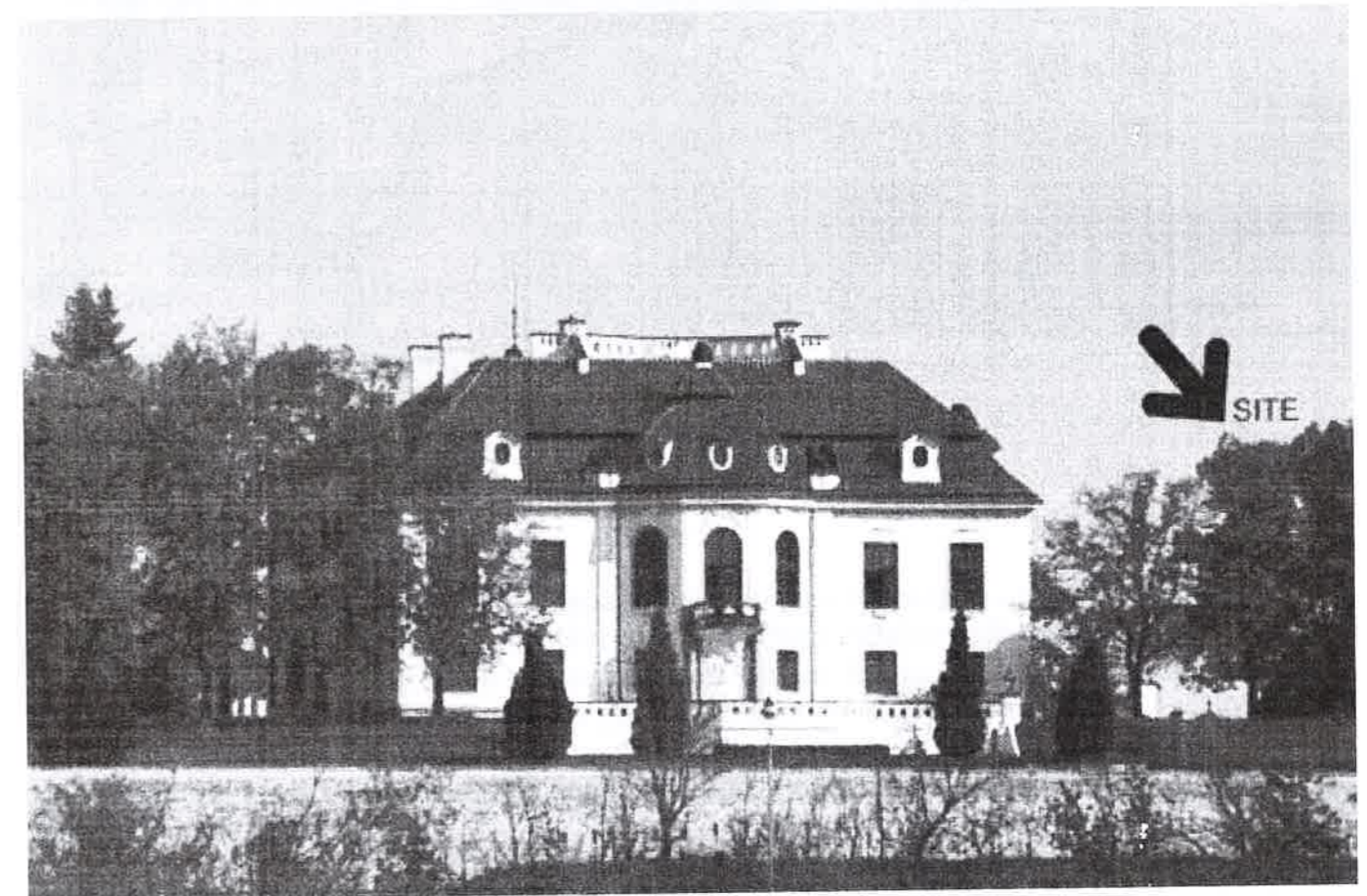


**Little Castle / Ignác Ullmann, 1863**



It is interesting that the construction following chronologically - Hanavský pavilion from the Jubilee Exhibition, which was transferred here in 1898, due to its roof formation (and thus also its silhouette that was with regard to the prevailing views from the south of the city the most important architectural feature) resembles the baroque manor Belvedere.

In the years 1908 - 1911, on the western edge of Letná Bedřich Ohmann built a manor house for Karel Kramář - nowadays the residence of the Prime Minister of the Czech Republic that again dominates the very edge of Letenská Plain towards the city centre.



**Kramář's manor house / Bedřich Ohmann, 1911**

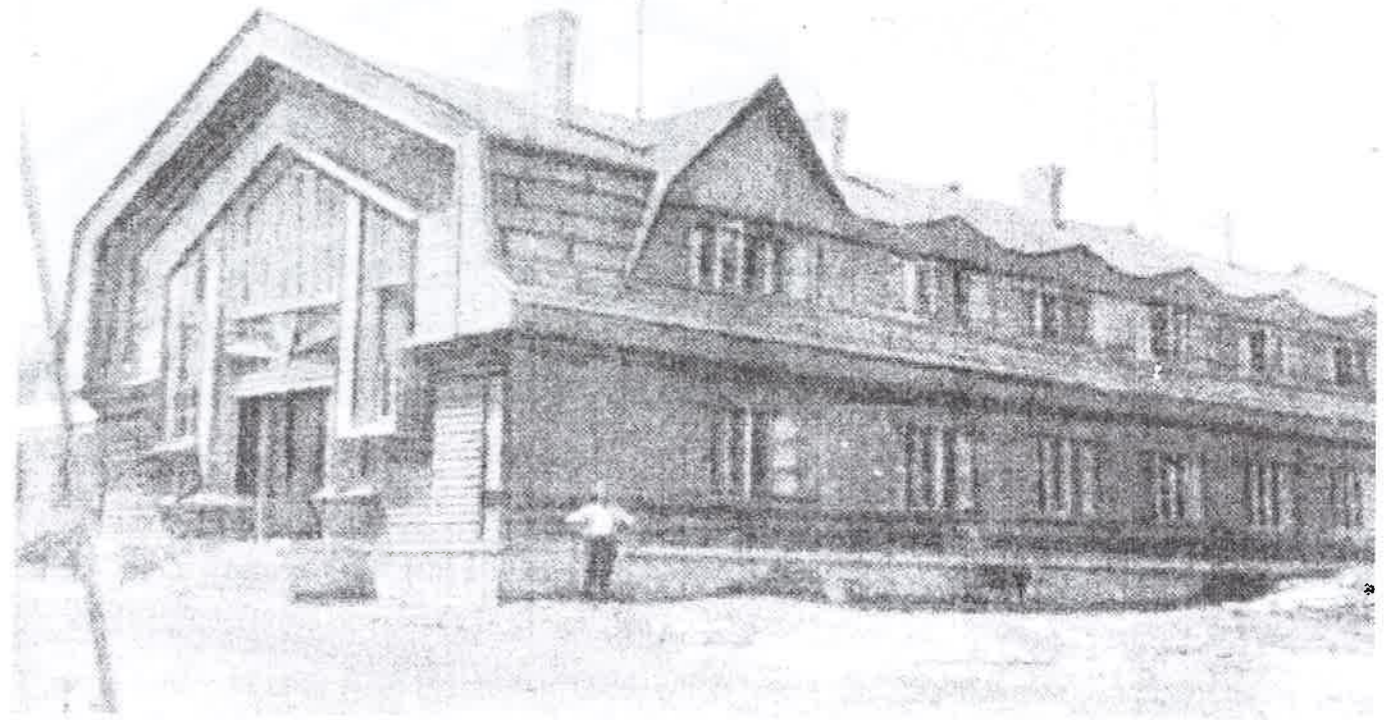
In the meantime the wooden sports stadium oriented perpendicularly to the longitudinal axis of Letná was probably built."

The halls of residence built in cubist style by architect Vaněček in 1922 on the western edge of Letná should have been a makeshift for several years but they were used until 1960s.

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Prague, Letná / Vaněček, 1922

### Tenders

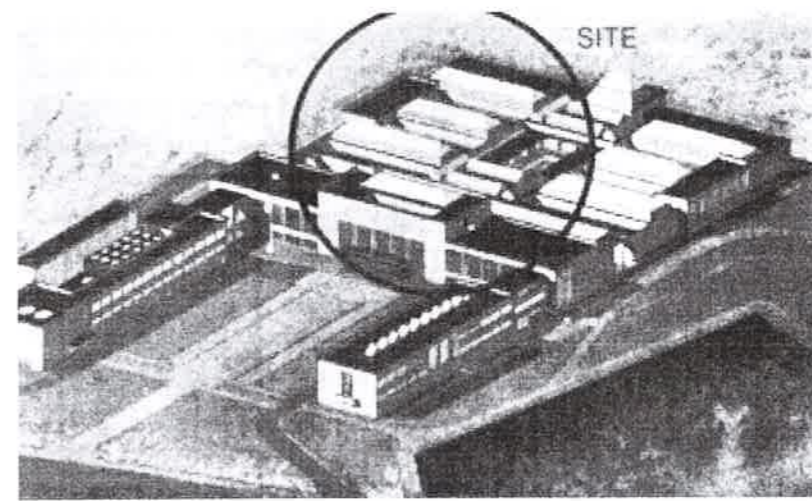
In the 20<sup>th</sup> century there were several tenders concerning the territory of Letná. In 1908 it was a tender for communication interconnection of the Pařížská třída avenue under construction over the Svatopluka Čecha bridge to the northern parts of Prague. To put it in a simplified way - the intention was to build either a cutting or a tunnel that would get the traffic up to Letná. The tenders thus concerned rather the southern slope of Letná than Letná "en gros". However, these projects already suggested possible development on the plain along the road, or better to say at the place where it comes to Letná.

There were more tenders in the 1920s and they were focused on the need of the new republic to gain appropriate buildings for ministries and central offices. As an example of certain functionalist harmonisation of the area can be seen in Krejcar's design from 1928 with twelve identical buildings from which the easternmost one was built later as the Ministry of Interior. However, also Janák's design from 1929 can be seen along similar lines. Janák's studies were always based on the emphasis of the importance of a generous solution of roads, as it is mentioned in his theoretical work - his design resembles, especially in its western part, a monumentally solved crossroad of boulevards rather than quiet residential blocks.

The last important event was a preparation of the construction of the Czechoslovak State Gallery with the entrance from Badeniho Street in the 1930s - the Gočár's design would probably reach as far as nowadays turn point of trams and buses, as the actual building block of the gallery had dimensions of more than 100 x 100 m. We also have to include the forefront of approximately the same size as the built-up area (figure 28) and later also the mass of so-called Masaryk's Institute was added to it, that was, however, solved at the expense of this forefront, which damaged significantly the "monumentality of the design". An interesting solution is included in Gočár's design towards Letenská Plain - a monumental colonnade with slim pillars was probably intended to perform certain optical interconnection with the huge "empty area" of Letná.



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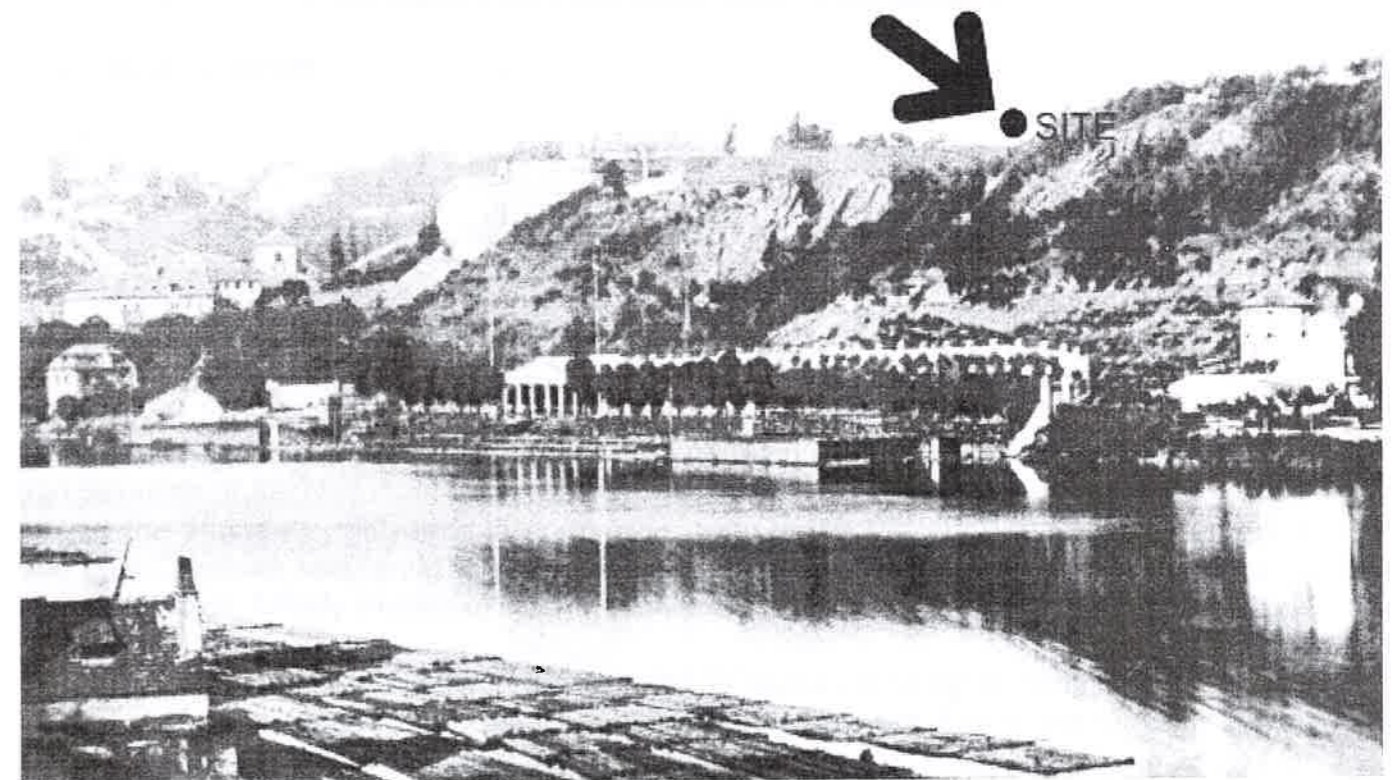


**State Gallery, Masaryk's Institute / Gočár, 1933**

Letná or Leteň was mentioned as early as in the 11<sup>th</sup> century. In 1261 there was a coronation ceremony of Přemysl Otakar II and in 1420 it was a camp of Zikmund's army before the defeat at Vítkov hill.

The gardens on Letná were planted in 1858, when Letná and its slopes were bought by Prague Community, and later it was adjusted by F. Thomayer around the year 1890.

The large area, later called Letenská Plain, stretched from the hilltop above the Vltava river northward towards the road leading from Buben village to Strahovská brána (today's Milady Horákové avenue). It was a military exercising ground until the late 1880s when playgrounds, gymnastic and sports grounds started to be established here.



**Prague, Letná /1880**

At the turn of the century, in connection with demolition of former Jewish Ghetto between the Old Town and the Vltava river and the construction of a new quarter in its place, an idea appeared to connect Letenská Plain downwards to Prague by means of a cutting (architect Jan Koula) or a tunnel (architect Richard Klenka from Vlastimil).

In 1920 a Prague planning committee was established and tenders were announced basically concerning town planning of Prague.

From designs for Letná which were supposed to solve government buildings and where the problem with Letná cutting or road appeared again, nothing was implemented.

Czech town planning started to develop with the formation of Greater Prague. Its construction and redevelopment in the new scale was supposed to be harmonised by means of so-called regulation plans.

In the years 1936-1938 an extensive wall of uniformly solved residential apartment buildings in accordance with the design by Josef Havlíček was built at the eastern part of Letenská Plain along Milady Horákové avenue and in the same time at the edge of the plain along Nad štolou street a complex of buildings of the Ministry of Interior was built by Kamil Roškot (in cooperation with Jaromír Krejcar and Jan Zázvorka). Not far from the south-east edge of Letenská Plain a symmetric composition of Agricultural Museum and National Technical Museum was finally built in the years 1938 to 1941 in accordance with the design by Milan Babuška. It was the beginning of the development of Letenská Plain from the east, which did not have a bad architectonic outcome but it significantly complicated the construction of Letenský tunnel after the World War II.

The construction of National Gallery was discussed for twenty years (Gočár's design of the construction at the western edge of Letná has never been implemented).

Ivan P. Muchka 10/2005

## **1.2 Siting, development conditions**

### **Siting**

The plots chosen as a site of the library building accommodating the Modern-Age Collections and Services of the National Library of the Czech Republic are located in the Borough of Letná nearby the boundary and within the protective zone of the Prague Protected Monument Zone. The park Letenské sady and the plain Letenská pláň, which north side is bordered by a significant urban axis, Milady Horákové Avenue, cover a large part of the Borough of Letná.

The east boundary of the plain Letenská pláň is demarcated by buildings of the Ministry of Interior, a general upper secondary school and two monumental Functional museums (National Technical Museum and Agricultural Museum).

Sport fields of sport clubs and a football stadium and hall of the sport club Sparta Praha are located northward of the plain Letenská pláň, on the opposite side of Milady Horákové Avenue.

The Master Plan of the Capital of Prague assigned the west boundary of the plain Letenská pláň for development of a significant cultural building.

The Library building will be located within the boundaries of the buildable area indicated in the binding general layout plan in scale 1 : 500.

Appropriate authorities of the Capital of Prague approved development of the new Library on this rectangular plot of approximately 100x118m. The plot ground slightly inclines northeastwards.

Today, the plot serves as an occasional tram turning loop and for bus parking. Both activities will be removed.

Currently, the plots designated for the National Library building are located in the zone with prohibited construction activities, which was declared due to the superior road network - City Ring Road.

### **Guidelines**

In the years 2007 through 2010, Milady Horákové Avenue located northwards from the site will be significantly adapted due to construction of a city ring road tunnel and its outlet end on the plain Letenská pláň. Within the current design of the City Ring Road development, Milady Horákové Avenue is designed with an intersection and tram track branching to a tram turning loop including access to a lay-by bus parking.

The north façade of the above-ground part of the building can reach maximally a street line, which is defined as the line set back approx. 5m from a curbing of newly adapted Milady Horákové Avenue (see the General Layout Plan - data plan). The building shall never cross the street line. The underground part of the designed Library building shall be located aside of the road tunnel tube and shall keep the distance structurally necessary for building foundation.

The underground floors of the Library shall respect the road tunnel tube and shall not restrain or limit construction of the City Ring Road. The option to found the Library building using in any way the City Ring Road tunnel structures is excluded.

The structural design of excavated tunnels uses maximally efficiency of the subbase and co-action of the environment surrounding tunnels. The design of tunnels considers neither development nor permanent presence of the National Library building. The siting conditions for a new Library building unaffacting the structure of excavated tunnels are as follows:

The side distance, foundation level and method including footing bottom load and advance of the new Library building construction shall be designed not to affect the structure of tunnels, particularly the side resistance of rock environment surrounding the tunnel and maintenance (unaffacting) of stress and deformation state in the tunnel subbase especially in surroundings and a toe of a constrained part of structural underground walls.

The Library west façade and existing villa houses of house nos. 2173 - Embassy of India -and 2176/1 - The Christian Community in the Czech Republic - shall have sufficient setback from the point of lighting and, in case of Embassy of India, insolation.

The distance between neighbouring buildings shall be minimally equal to the height of the highest opposite wall.



The minimum corridor between a fence and west boundary of the site is set by the street line in the total distance of 23m. A green strip, 3m wide, will be located along the fence of the existing villa houses. The above-mentioned corridor will accommodate a double-lane road, which shall enable not only servicing the Library building but also handling detour of public transportation buses coming in the direction from Milady Horákové Avenue to the streets Na Špejcharu and Badeniho. The entry and, as the case may be, exit ramp accessing the building underground floors of the National Library may be located in the corridor. The road location will have to be confirmed in the design of the National Library for planning permit.

Neither the contour nor any cantilevered part of a south part of underground floors nor the aboveground façade shall surpass the street line. The street line is set 3m back from a sidewalk, which respects a future right-of way space of utility networks located under the sidewalk and connects Letenská pláň with a sidewalk in the street Na Špejcharu (see the General Layout Plan - utility networks/Competition Round II). This right-of way space is designated for needs of the designed building of the National Library and enables to relocate existing and designed utility networks there within the City Ring Road development.

The east façade of aboveground floors and an underground part of the building may reach the street line running 5m from the plot boundary. A sidewalk maintaining north-south passage for pedestrians shall be linked to the system of park paths and shall be located in the 5-m wide strip. The relocated utility networks shall be located under the sidewalk.

The height limit of the main volume of the National Library is recommended, in relation to neighbouring development located by the west boundary of the site, to four aboveground floors. The absolute maximal height and height of other facades are not expressly stipulated. Number of underground floors is not limited; however on the north side it is necessary is to adapt the design to limitations resulting from the neighbouring ring road tunnel tube (see Cross Sections A-A' and B-B). When choosing a convenient structural concept and advance of the Library building construction, the 10-m side setback of the National Library building from the City Ring Road structures may be considered sufficient and unaffecting. The maximum possible depth of north foundation, which is in contact with the underground tunnel, is 12.50m (relative to adapted Milady Horákové Avenue) i.e. the footing bottom of the Library building shall not be below the elevation of 212.90m above the sea level. This limit is valid in the zone including 10-m wide strips on both sides of the external tunnel face. Any smaller setbacks from the City Ring Road tunnels shall be documented in the consequential winning design for planning permit by a structural assessment, which shall prove that neither the setback nor the construction advance and method will affect the City Ring Road structure.

Volume and architecture of the building shall be based on the phenomenon of the given spot, i.e. the closing position on Letenská pláň and panoramic view on dominant Prague Castle with St. Vitus's cathedral and Petřín Hill with its sightseeing tower. It is required to design the building as a solitaire with all façades equally exposed to views of passers-by. It is recommended to place suitable parts of the Library operation to the underground and, when creating the aboveground part of the building, to have free hands to find the right building shape fitting into context of the historical panorama. Integration of the Library into the space will be proved by plotting the designed building into the photographs from the points of view F1, F2, F3 and F4. The Library building will be most probably the last building constructed in this part of the plain Letenská pláň till 2030. The Master Plan of the Capital of Prague intends to keep the plain area free, without any additional new building.



### **Reserve area**

In the Competition Rounds I and II, competitors will present their ideas about shaping and usage of the reserve area between the east façade of the National Library and the City Ring Road tunnel entrance. The reserve area is designated for further development of the National Library after 2030. The programme of additional development of approx. 25-30% of floorage of the new National Library building dedicated particularly to book storage and, possibly, to other required functions. This volume will not be considered in plotting into the photographs F1, F2, F3 and F4.

In the Competition Round I, Competitors are requested to design a volume vision of further development of the National Library after 2030 only in presentation of an additional model 1: 500, which, besides the required volume model of the new National Library building, will be inserted into the general model of the plain Letenská pláň.

### **Traffic connections**

From the point of surface and traffic adaptations, the entire territory is designed differently within the City Ring Road development. The General Layout Plan - data plan for plotting of the National Library building presumes adaptations of the traffic connections, which shall be considered binding and will be a part of the competition designs of the new National Library building.

Servicing traffic will access the building from the north, from Milady Horákové Avenue. A double-lane one-way street leading from Milady Horákové Avenue to Badeniho Street and possible space for a ramp enabling access to the Library underground is inserted between the existing development in the streets Milady Horákové, Badeniho, Na Špejcharu and the building of the National Library.

The street Na Špejcharu will be the 7-m wide service road adapted as the one-way street leading into Badeniho Street.

The National Library entrances should accentuate the main pedestrian routes. Pedestrians visiting the Library are expected to access the Library from three directions. Firstly, pedestrians will come from the public transportation lines i.e. from the underground station and tram stop Hradčanská, which is located 250m westwards, in Milady Horákové Avenue (approx. 70%), and, secondly, from southwest, from the tram stop in Badeniho Street (15%) and from the park Letenské sady located south-eastwards from the Library building (approx 15%), where diagonal pedestrian paths meet and enable free access to the park.

Parking and lay-by places will be located in underground garages. Concerning idling traffic, the competition briefs stipulate that it is necessary to provide 400 parking places for the library operation. Parking places for 180 cars shall be designed together with the building. It is expected that 220 remaining parking places will be placed in an underground garage built together with the prepared City Ring Road development eastwards from the National Library building in acceptable walking distance within the area of Letenská pláň.

The clear headway on the first underground floor shall be 3.60m, which is necessary for movements of delivery vehicles.

### **Environmental impacts of the building**

The building is expected to utilise modern technologies reducing energy demandingness and saving total operational costs. The library operation should not have unfavourable environmental

impacts. Concentration of negative impacts will cumulate nearby the entry to underground garages, which basically means to the service road.

The site is located on the edge of urban development on the plots that are registered in the Land Register as other areas or built-up areas and yards. The construction will not need any acquisition of agricultural or forest land resources. Broadleaved grown vegetation prevails in the park Letenské sady located in neighbourhood of the future site. After completion of the Library building, landscaping and plantation of low and high green vegetation is considered within the finishing works. Close neighbourhood of the park should enable enjoyable interconnection of interior user spaces with external ones. A dendrological survey of the designated area will be handed over to competitors who advanced to Round II.

### 1.3 Requirements for design of the building

#### a/ Results of engineering and geological and hydrological review

The assessment of engineering and geological conditions was elaborated for the project of the new building of the National Library of the Czech Republic in the Borough of Letná in Prague 7 in a form of the archive geological review without probes with the objective to provide the designer with basic data concerning geological and hydrogeological conditions within the future site.

On the basis of results of the archive geological review, the subbase of the designed building seems to consist of bearing soils and rocks (loamy gravels plus weathered and slightly weathered shales). The depth of the surface layer of the pre-Quaternary subbase within the future site inclines generally westward up to north-westward and may locally vary. If the considered footing bottom level is in the depth of 3 to 4 underground floors, a part of the building will be founded on loamy gravel and another part on shales of different degrees of weathering.

#### East part of the site (V)

- |                                                                          |     |                                                                                          |
|--------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------|
| 0.0 - 1.5 m                                                              | (1) | Man-made fill                                                                            |
| 1.5 - 6.0 m                                                              | (2) | Stiff up to solid, silty up to sandy loam (loess), (to approx. 222m above the sea level) |
| 6.0 - 7.0 m                                                              | (3) | Medium compacted up to compacted, loamy gravel, (to approx. 221m the sea level)          |
| 7.0 - 8.0 m                                                              | (4) | Completely weathered, loamy and fragmentary rotten shale                                 |
| From 8 m                                                                 | (5) | Weathered, fragmentary rotten shale                                                      |
| In depth about 9-10m, solid, slightly weathered shales are expected (6). |     |                                                                                          |

#### West part of the site (Z)

- |                                                                        |     |                                                                                          |
|------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------|
| 0.0 - 1.5 m                                                            | (1) | Man-made fill                                                                            |
| 1.5 - 8.0 m                                                            | (2) | Stiff up to solid, silty up to sandy loam (loess), (to approx. 221m above the sea level) |
| 8.0 - 11.0 m                                                           | (3) | Medium compacted up to compacted, loamy gravel, (to approx. 218m the sea level)          |
| 11.0 - 13.0 m                                                          | (4) | Completely weathered, loamy and fragmentary rotten shale                                 |
| From 13 m                                                              | (5) | Weathered, fragmentary rotten shale                                                      |
| In depth about 14m, solid, slightly weathered shales are expected (6). |     |                                                                                          |

The consequential detailed engineering and geological survey will assess deformation properties of both types of rocks but compressibility of both types it may be expected not to vary unacceptably and the different subbase structure will not matter. The additional load caused by the building will be small due to considerable subbase release caused by deep excavations.

The detailed engineering and geological map shows that the underground water level in the designated territory can be found from 7 to 9m under the ground i.e. ranging between the elevations of 221 and 218m above the sea level (the underground water level on the south edge of the territory ranges between the elevations of approx. 221 and 220m above the sea level and inclines northwards down to the elevation of approx. 218m above the sea level). The underground water is tied to loamy gravels and, as the case may be, weathered shales.

The ring road tunnel is to be build along the north boundary of the Library site. Based on our current data documents, its profile grade will be from 12 to 13m under the current ground i.e. on the elevation of approx. 213 m above the sea level. The design of the National Library shall be coordinated with the tunnel design.

#### b/ Archaeology

According to information provided by the Institute of Archaeology of the Academy of Sciences of the Czech Republic, it will not be necessary to execute any rescue archaeological excavation, an archaeological supervision during the construction of building foundations will be sufficient.

#### c/ Structural engineering

The load of building structures will range between 7,500N/m<sup>2</sup> (open shelves for free choice) and 15,000N/m<sup>2</sup> (compact racks).

#### d/ Connection to utility mains

All basic utility networks are or will be in the designated territory. However, it will be possible to evaluate concrete needs of new utility networks only on the basis of the winning building design. In the near future, utilities in scope necessary for the ring road tunnel construction will be relocated in relation to the City Ring Road development. The remaining utilities as well as the above-mentioned scope of relocations shall be considered as the incipient state for a design of the Library building. Should the winning design of the Library building be in collision with the above-mentioned solution of utilities, it will be necessary to solve them within the planning proceeding of the National Library building. The Coordinated General Layout Plan of the City Ring Road, which includes solution of the City Ring Road in this territory will form an informative appendix for competitors advanced to the Round II and shall be considered as the incipient state for the design of the National Library for planning permit.

#### e/ Development conditions - coordination

The winning design of the National Library building and considered grading in its vicinity shall be coordinated in the City Ring Road zone with prohibited construction activities. The development condition is the coordination of the building construction with the City Ring Road development, especially concerning traffic planning, relocation of utilities, the construction and structural design of the National Library building. The City Ring Road shall not collide with construction of the National Library building from the point of their locations. The tunnel shall be driven in the depth of 20m between "diaphragm walls" under a built top structure. The completion of the tunnel nearby the future new building of the National Library of the Czech Republic and putting of the whole City Ring Road into service is expected in 2011. The mutual contact of the building and the tunnel will be very demanding on acoustic and vibration control.



The City Ring Road development will be divided to separate building phases, which will be accompanied by different measures in their vicinity. The concrete impacts of coordination of both buildings can be determined only on the basis of a winning architectural and constructional design and detailed time schedule of the Library building development.

#### **1.4 Requirements for technical characteristics of building structures, acoustic control, resistance and safety from the point of view of fire and civil protection**

Exterior and interior wall and floor structures separating spaces with different heating modes and wall constructions abutting to the ground shall meet requirements for thermal and technical properties concerning overall heat transmission and water vapour permeability set by standard values of thermal resistance of the construction, thermal lag, air permeability of the construction, etc. Regarding illumination and warmth comfort as well as low operational costs, it is necessary to choose façade materials, which will provide abundance of daylight and visibility from and into the building. Chosen materials shall be differentiated according to a degree of exposure to sun of separate parts of the building.

The warmth comfort shall not depend exclusively on air-conditioning or heating. It shall also depend on combination of quality surfacing materials, which are able to "keep" the relatively stable thermal mode even in case of temporary blackout of air-conditioning.

The enclosing shell shall enable easy and financially not too demanding maintenance.

Automatic control of exterior and interior artificial lighting related to exterior lighting conditions and/or presence/absence of users, visitors or staff in a certain room.

Perimeter and interior wall and floor structures shall be sufficient from the point of acoustic insulation.

The acoustic comfort in all parts of the building shall be ensured not only by dividing partitions or other barriers but also by used modern technologies. It is recommended to suitably combine surfacing materials (considering also their fire resistance), furniture and special technologies.

Fire division and structural walls inside fire compartments shall have fire rating in compliance with standard values.

Stack rooms shall be designed without windows; air temperature and relative humidity in stack rooms themselves should be continuously maintained on the level of 18 °C and 50%, respectively. A part of stack rooms and workshops will be equipped with their own air-conditioning. The air-handling facilities will be equipped with recovery, measurement and control systems. The measurement and control system will include the building heating by means of a gas boiler room.

Heating, cooling, air-handling and air-conditioning will be linked together to provide optimal synergy of systems. Control of interior climate of the building will be adjusted on the basis of exterior weather conditions.

The whole Library building will be fitted with a full electronic security and fire alarm system. The electronic fire alarm system complemented with self-extinguishing equipment will be connected to the building protection board /in a control room/. The building shall have the operating safety and information system with video and audio output.



Special care shall be given to operational layout which shall provide technically secured separation of public (readers) and service parts of the building by means of a coding system of door opening according to hierarchically structured authorisation and automatic systems of identification and registration. It is necessary to provide multiple checks of trespassers and to monitor the rooms by means of the CCTV system to secure global security.

It is clear that the whole premises will be designed as barrier-free.

### **1.5 Building infrastructures, facilities and amenities**

Besides, common technical facilities (transformer station, high and low voltage switching stations, secondary power supply, gas boiler room, air-handling plants, etc.), the considered utilities, facilities and amenities shall include specific built-in and free equipment. The building programme includes estimated spaces necessary for building technologies (actual sizes will be adjusted according to the designed technology).

The following built-in utilities, facilities and amenities are expected in particular:

- Passenger lifts,
- Hoists for transport of pallets,
- Hoists for transport of books stored on library trolleys,
- Horizontal and vertical conveyor and elevator - telelift,
- Compact racks with power supply necessary for their controlling (for 60% of library collections),
- Terminals of optical network,
- Structured cabling for power distribution and communication installations, including computer network (converged network enabling integrated operation and building management),
- Floor plugs of structured cabling in study zones, class rooms and staff workplaces,
- Internal information system,
- Internal electronic security and alarm system,
- Self-extinguishing equipment for stack rooms (no sprinklers), including engine room of automatic extinguishing station,
- Electronic check and alarm system signalling illegally carried-away library materials at the check point,
- Central camera supervision - CCTV,
- Provision of controlled climate in stack rooms, laboratories and workshops, study rooms,
- Air-conditioning of servers,
- Audiovisual equipment in a multi-purpose hall,
- Attendance counters in user rooms intended for borrowing library materials,
- Cloak room equipment,
- Technologies for a restaurant and literary café.

The following free standing utilities, facilities and amenities are considered in particular:

- Computer network servers,
- Data storage,
- Fixed and brought-in terminal computers in reserved readers' places connected to computer network,
- Terminal computers located at all staff workplaces connected to computer network,
- Self-service copiers,
- Reprographic machines for technical support department servicing visitors,
- Rack structures in storages, public spaces and offices,
- Store boxes in a cloak room,
- Office and library furniture for workplaces,
- Furnishing of a lecture hall,
- Furniture for study rooms and classes,
- Cleaning machines for cleaning of interior spaces.

## **2 Specific requirements for the solution of the building with respect to the nature of its function**

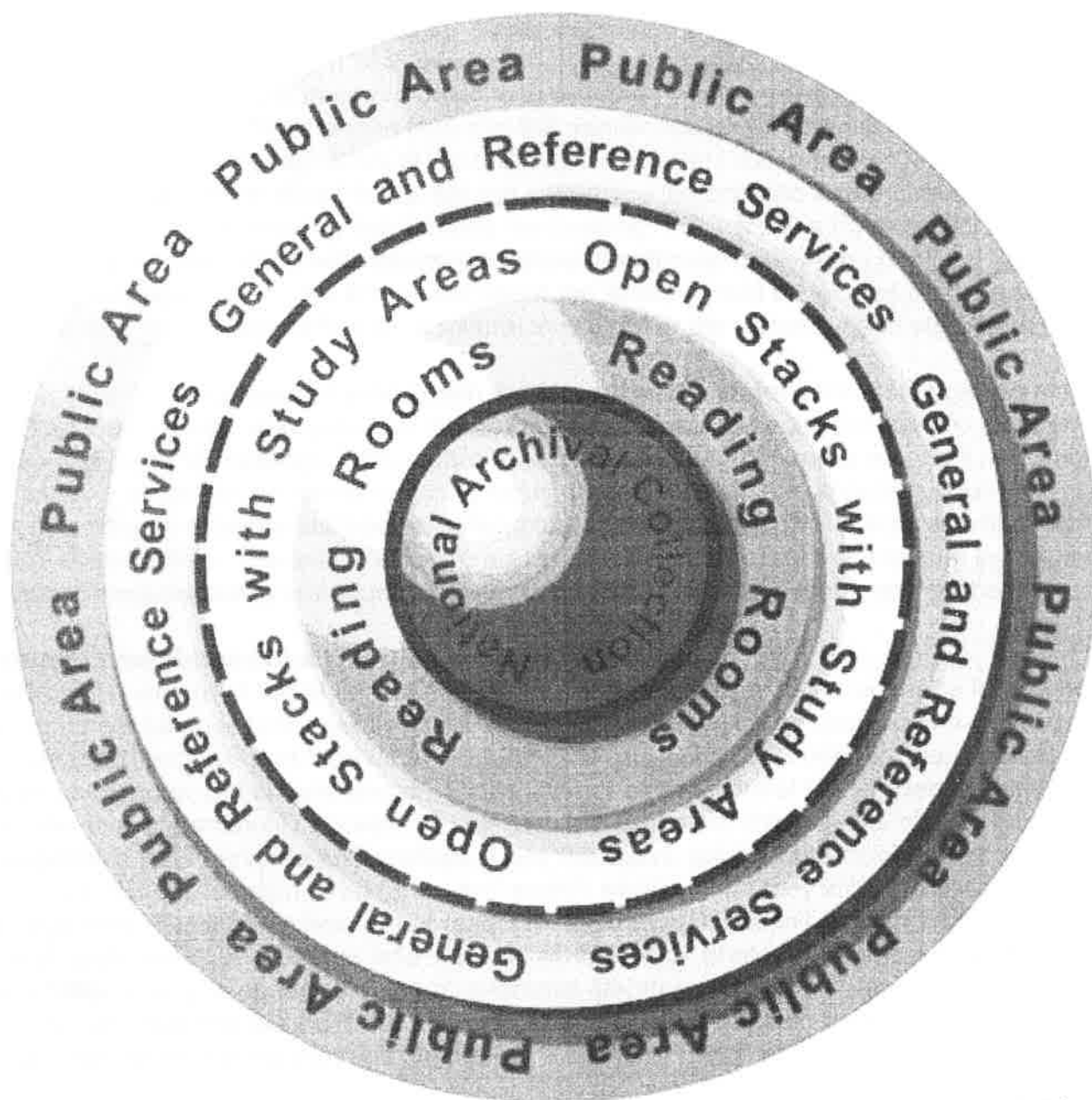
### **2.1. Basic description of the function of the building including the requirements for the layout and operations**

In the new building of NL CR Library Collections and Services will be located. This include all the collections from 1801 up to present (and future with an estimate of next 50 years) and services connected with it. At the moment it includes 5 million items and we expect that in 50 years it will be necessary to place in the new building roughly twice as many, i.e. 10 million items. In 2010 about 300 employees will move to the new building, which is a great majority of the existing employees of NL CR. We started the description of the use of the construction with these basic figures in order to make it obvious from the very beginning that in the new building it is necessary to place an extremely large amount of library collections and employees in an adequate way. Necessity of placing a large number of items (including the National Archival Collection) and employees often influences the conception of new buildings of national and other large libraries to such an extent that they have a character of an astonishing national monument, archive and/or an "office" not very pleasant for users. It is necessary to prevent such an effect. The conception of the new building of NL CR is focused mainly on users but during its implementation we cannot forget about the above-mentioned 10 million items and 300 employees.

Preparation of a conception of the new library at the time when libraries are gradually being transformed from more or less enclosed institutions providing traditional services connected to the actual collection into open institutions with significantly wider social and cultural range and importance is a challenge of its own kind. Preparation of a conception of a new national library, some parts of which cannot be open due to their nature (National Archival Collection) and which will be situated in the place that is predetermined for its maximum opening, is a double challenge. Things that are seemingly difficult to unify can be combined in such a way that they will limit each other and induce a need to construct various barriers. However, at the time of modern technologies that minimise noise, risks of document theft etc. it is possible to arrange them also in such a way that they will be interconnected and enhance each other purposefully.

*The description of the new building will be introduced with a simple graphic presentation that is described briefly in the following text. On the perimeter of the circular model there are zones accessible to all the visitors of the library without any limitations. The closer to the centre, the more limitations there are. Entry behind the dashed line requires a necessity of registration, possibility of entry behind the full line is very limited. The limitation of free movement from the perimeter to the centre is also enhanced by the colour signalling, when green means "walk" and red means "stop".*

*[Note: The same colour scheme will also be applied in the detailed description of the content of the individual zones and in the tables.]*



Before studying the detailed description of the individual zones presented in this model, it is necessary to accept the following idea: although in the end the individual zones can be arranged in any way and free (non-library) zones are planned in quite an extensive way, it must always and everywhere be clear that it is a library. The library must not be intrusive but must be "omnipresent", both inside the building and outside in its surroundings - at night and when it is closed; the building must emanate its presence to its neighbourhood.

The library should appeal to every visitor of the library but also an accidental passer-by, not only as regards the possibility of using its library services but also as regards other services that the library will offer. At the same time the library should be seen as a place for meetings or discussions with colleagues and friends, for various social and cultural events but also as a quiet place for relaxation when visiting the café and restaurant that will also be a part of it.

### **Public Area**

It is intended for everybody without any difference and limitation. Everybody can come to this zone and leave it without any checks. The following will be located in this area: literary café, restaurant, multipurpose hall, premises for exhibitions, relaxation and discussion zone, zone with

information about the library, bookshop combined with a shop selling materials issued by the library and about the library. It also includes a car park, cloakroom and sufficient background. This zone will be optically interconnected with the library but it must enable fully autonomous operation also at the time when the library in the narrow sense will be closed. With regard to the unique view from the highest floors of the building, a restaurant with a terrace and a multipurpose hall should be placed on these floors. On the contrary, a literary café with a summer outside terrace connected to the planting surrounding the building, the premises for exhibitions, relaxation and discussion zone, zone with information about the library, bookshop combined with a shop selling materials issued by the library and about the library should be located on the ground floor (the first over-ground storey?) to be a natural invitation for the passers-by to stop there.

The location of the connected zones (with the exception of a larger part of storage rooms) must be on the over-ground storeys but for their layout in the space there are not specific requirements (unlike the place of meeting). With regard to the rational use of financial means it is suitable to join areas with specific demands requiring expensive solutions in one area (e.g. easily dismantlable floor of several layers and special lighting and soundproofing in the places with high concentration of computers). Because these are areas where we can expect changes in layout in next 50 years, modular, easily dismantlable and modifiable solutions must be applied here.

### **General and Reference Services**

It will offer a variant of the Main Library Hall in direct connection to the entrance for the public. This zone will be open to the public as a place of first reception of the user with information about the Library Collections and Services. Apart from the reference collections in open shelves, there will be catalogues, databases, portals, Digital Library and archive of Czech web available. Apart from the use of commonly accessible sources, the access to Internet will also enable access to expensive paid services and sources. Here the users will be able to obtain basic information, specialist consultations, reference and search services and they will be able to attend user trainings here. It will be a place of the reader's registration, there will also be a circulation desk, central cash desk, acceptance and release of orders of photoduplicating services, self-service photocopying, area for studying of reference literature and training and consultation area. Visitors can enter this area without registration and checks, but with regard to the presence of documents, when leaving they will go through a common check of documents taken away.

### **Open Stacks with Study Areas**

It will be solved as an open area with study places and open stacks with reference and non-fiction literature intended for studies on the spot. The unattended part will provide sufficient number of places in basic equipment, also for studies of the actual documents with connection to other services - self-service photocopying, access to computers, wireless connection and basic consultation and advisory services. There will be a possibility of loud communication among users in sound-shielded clubrooms. The attended part will offer a whole range of study places to make accessible all the types of documents (multimedia) from the Universal Library Collection connected to the open and attended reference and non-fiction collections. The users will be able to use consultation and lending services with a possibility of long-term booking of documents stored in storage rooms. Due to its area and comfortable access to the open stacks, the study zone will satisfy the users who prefer larger area when studying. The entry to this zone already assumes an obligation to undergo checks of a valid reader registration, identification of the documents brought in and leaving of larger baggage and overgarment in the cloakroom. When leaving the library, the visitors of this zone will go through common checks of the documents taken away.



## Reading Rooms

They will offer to users a typically arranged system of specialised reading rooms (micro-media, electronic documents, periodicals) to make accessible special types of documents from the Universal Library Collection. For the users there will be consultation and lending services (receipt/release of ordered and booked documents from storage rooms and attended reference collection), area for studying of the collection from reference libraries and other connected services (self-service photocopying, wireless connection etc.). For those who like more privacy there will be so-called quiet reading room with above standard places for long-term R&D work with an openly accessible as well as attended reference collection and with a possibility of long-term booking of documents stored in the storage rooms. The entry to this area requires minimum the fulfilment of the conditions valid for the "yellow" study zone with open stacks and in the individual reading rooms the entry and exit will be further regulated according to the concrete specifications.

## National Archival Collection

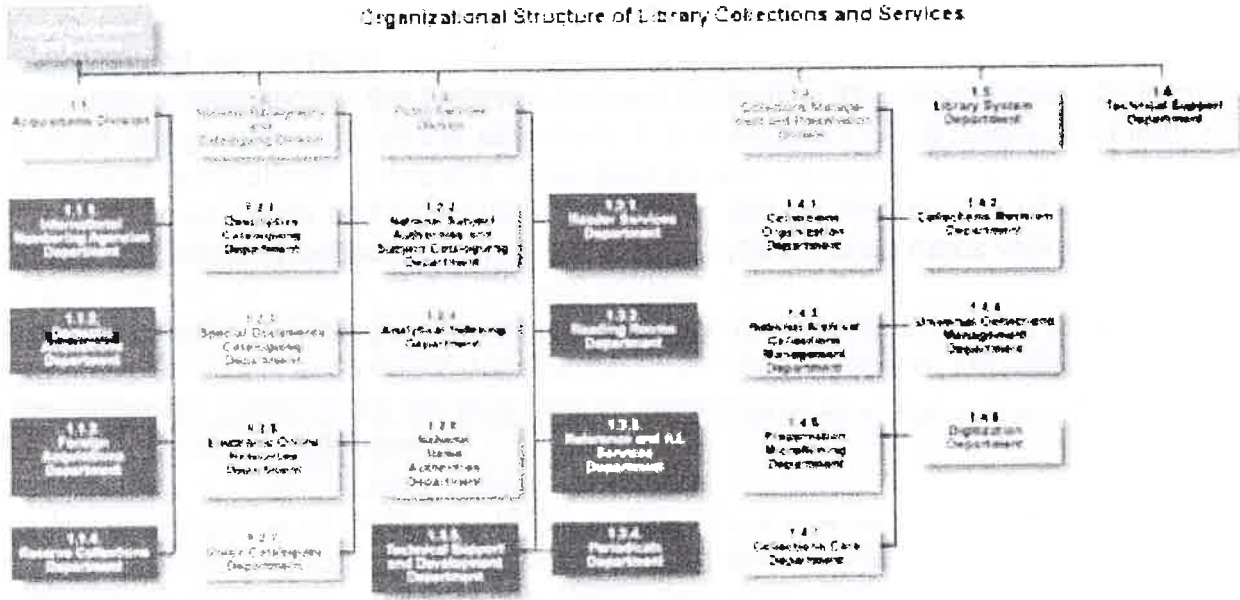
It represents a collection of publications issued in the territory of the Czech Republic or Czechoslovakia from 1801 up to present. They are archive copies intended to be preserved for future generations and thus they form the "heart" of the National Library. They are not used for common information services and they are only made accessible if another copy is not available in the territory of the CR. The importance and purpose of the preservation collections also correspond to the way how they are made accessible with maximum requirements for their preservation. The loss of these collections usually cannot be fully compensated - it is an unrecoverable loss of national cultural heritage. Both the entry to this zone and exit from it is subject to extraordinary checks and safety measures. The storage rooms of the national archival collections must be located on the over-ground storeys with a direct connection to the reading room and other workplaces of the national archival collections in such a way that an enclosed zone is created here.

Even though most of the visitors of the new library will probably never enter this zone, its importance for the overall atmosphere of the building will be extraordinary. The awareness that it is here where the substantial part of the national cultural heritage is stored and preserved for future generations gives a unique dimension to the whole building.

## 2.2 Description of functional units in the building and connections among them

The absolute majority of the area in the new building will be filled with premises of the Library Collections and Services. The organisation structure of the section was newly outlined with regard to optimising of the operation in the new building. First the organisation structure will be presented graphically, and then the individual divisions will be described briefly with an emphasis on the specific operation features and external connections. The internal connections and other details are specified in the attached tables that apart from the description also include detailed and comprehensive quantitative indicators.

From the graphic representation of the section structure it is clear that the Library Collections and Services comprise of four large divisions that ensure basic library processes (acquisition, cataloguing, management and preservation of collections and of course services) and in more or less similar structure they are represented in all big world libraries. These large divisions (about 60-90 employees) are then divided into specialised departments. The section also includes two small separate departments (4-5 employees) of supportive and sectional character.



Below there is a description of the individual divisions supplemented with detailed tables. The colour scheme used for the description of the zones accessible for the public will be extended by other colours in the following text and tables:

Common operating zone under NL administration accessible to the public only when accompanied by a specialist of Library Collections and Services

Operations and laboratories under NL administration where there are substances and materials requiring a specific regime and isolation from the other NL workplaces and services

Workplaces managed by external entities

The outline of the relevant colours introduces each of the described divisions. The optimum layout of the individual operating divisions will be clear from the description of their functions and especially the external connections. Direct connections can be performed both at vertical and horizontal level.

The operations where people work for a long time (with the exception of most of the storage rooms) must be located on the over-ground storeys with the maximum possible access of daylight. On the over-ground storeys there must be storage rooms of the National Archival Collections that on the contrary must be without windows and form a kind of separate unit protected safely against possible destructive influence arising from the other operations (water, fire etc.).

Because these are areas where we can expect changes in layout in next 50 years, modular, easily dismantlable and modifiable solutions must be applied here. In the operation zones it is desirable to divide the area into group zones for the teams of the maximum size of a department.

### **2.2.1 Acquisition Division**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

#### **Description of activities:**

It replenishes systematically the National Archival Collection, Universal Library Collection and some other designated parts of the collection. It is a recipient of complete obligatory print of non-periodical publications. It ensures other parallel and retrospective acquisition of domestic non-periodical documents and selective acquisition of foreign documents (with the exception of purchased and donated periodicals). In acquisition activities it cooperates with a number of specialist and commercial entities in the CR and abroad. It maintains primary (increase) records of acquired documents. It catalogues the acquired foreign documents according to names (with the exception of periodicals and special documents on all types of media). The department administers the exchange collection for the purposes of international exchanges of publications, as well as the modern reserve collection.

It is a National Agency of ISBN and ISMN in the CR. It is a national centre for international exchange of official publications. It guarantees fulfilment of agreements of NL CR concerning the international exchange of publications. Within the scope of its specialist activities it performs coordination, methodology, advisory and consultation activities. It participates in the research and development activities.

#### **Specific features as regards the construction programme:**

With regard to the large volume of documents, requirements for large handling background (for description, see the table - handling area, handling storage rooms, workplaces with a handling area). With regard to continuous transport of documents, requirements for direct transfer/transport connections. With regard to the frequency of consultations and meetings, requirements for workplaces with a meeting area. Storage room of books for reserve collections with parameters corresponding to the library collections preservation (statics, climate, security, way of storage, transport connections). Quarantine storage rooms with corresponding parameters.

#### **Description of operation connections:**

External connections (outside NL CR): receipt of documents from external sources to NL CR (post office, individual supplies, personal deliveries for the Domestic Acquisition Department, Foreign Acquisition Department, Reserve Collections Department). Dispatching of documents outside NL CR by means of post office or in another way (especially book donations, consignments of international exchange of publications, liquidations from the above mentioned departments). Requirements are transfer/transport connections to the post office of NL CR, to the transport (loading / unloading) ramp.

Very high number of continuous external professional visits for consultations (publishers, editors, other cooperating entities). Business meetings with representatives of commercial entities (distributors, supplier companies, publishers etc.).

External connections (other workplaces of NL CR): transport of documents to other workplaces, especially connections in the line of document processing to the National Bibliography and



Cataloguing Division (Descriptive Cataloguing Department, Special Documents Cataloguing Department, National Subject Authorities and Subject Cataloguing Department), Collections Management and Preservation Division (Collections Organization Department, Collections Managers, Collections Care Department), as well as Public Services Division (Periodicals Department, news corner in the so-called quiet reading room). Requirements are direct transfer/transport connections between the relevant workplaces.

For receipt of material from storage room and waste - i.e. common waste and sorted waste in increased extent.

Internal connections (in the department): direct communication and transfer/transport connections (continuous transport of documents) between the individual workplaces, offices, handling areas, handling storage rooms within the whole division. Transport connections to the storage room of reserve collections and to the quarantine storage rooms.

#### **Division accessibility:**

All the premises are under protection system. Entry for the public only when accompanied by the employee in charge.

### **2.2.2 National Bibliography and Cataloguing Division**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

#### **Description of activities:**

It ensures cataloguing of printed publications (with the exception of periodicals) and selected special documents acquired to the National Archival Collection, Universal Library Collection and study collection at monographic and serial levels and selectively at analytic level. It fulfils a function of the national bibliographic agency and CIP agency. It is a centre of the Union Catalogue of the CR and an administrator of national authorities. It monitors and makes accessible international standards valid for the area of cataloguing and in connection to them it creates and applies unified cataloguing policy. It cooperates with libraries, institutions and specialist workplaces within the CR and abroad and it is responsible for the participation of NL CR in common projects and for the fulfilment of relevant agreements. Within the scope of its specialist activities it performs coordination, methodology, advisory and consultation activities and this authority also belongs to the individual workplaces within the sphere of their activity. It participates in the research and development activities.

#### **Specific features as regards the construction programme:**

With regard to the large (and prospectively growing) amount of documents and division of the processing lines, requirements for direct transfer/transport connections, area for temporary storage of documents and handling area according to the needs of the department (for details, see the table). Horizontal connection to trolleys and vertical connection to lifts. Emphasis on preservation of documents (against damage and theft), ensuring of their preservation also within the division (enclosed workplaces). With regard to the extent of methodology, consultation etc. activities, area for reference libraries, documentation and area for meetings.

Area flexibility - possibility of adjusting the layout according to the development of the type and number of documents etc.



In all workplaces there are activities requiring office environment with standard equipment (computers with accessories, computer network, copiers, telephones, bar code/chip readers), supplemented with possible storage and handling or meeting area.

#### **Description of operation connections:**

External connections (outside NL CR): department does not have any specific requirements, standard post office

Usual number of external professional visits (consultations CIP publishers)

External workplaces (other workplaces NL CR): receipt of documents from other workplaces and their handover for storage within the scope of the section: Domestic Acquisition Department; Foreign Acquisition Department; Collections Organization Department, National Archival Collections Management Department, Collections Revision Department; Reader Services Department, Periodicals Department

(also see the table)

Receipt of material from the storage room in the usual extent. Waste - i.e. common waste as well as sorted waste also in common extent.

Internal connections in the department: direct communication connections between the individual workplaces, transfer/transport connections among the National Name Authorities Department, National Subject Authorities and Subject Cataloguing Department and Analytical Indexing Department and within the individual departments.

Card catalogues can be archived without communication connection to the division.

#### **Division accessibility:**

All the premises are under protection system. Entry for the public only when accompanied by the employee in charge.

### **2.2.3 Public Services Division**

#### **Public Area**

##### **General and Reference Services**

##### **Open Stacks with Study Areas**

##### **Reading Rooms**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

#### **Description of activities:**

In accordance with the Library Rules and Regulations, NL CR provides complex public library and information services to the library users. It is building a system of general and specialised reading rooms with reference collection and open stacks with reference and non-fiction literature. In accordance with the determined profile of acquisition, it ensures a system of acquisition and cataloguing of domestic and foreign periodicals. As regards the content, it also participates in the acquisition of the library collections. It is a national centre of ILL services in the Czech Republic.

Within the scope of its specialist activities it performs coordination, methodology, advisory and

consultation activities and this authority also belongs to the individual workplaces within the sphere of their activity. It participates in the research and development activities.

### **Specific features as regards the construction programme:**

With regard to the sphere of activity in the public zones (from green to orange, see the tables) and in the non-public zone (grey, see the tables), requirements for its placement in direct contact with the public, with public and non-public horizontal and vertical connections between the individual zones, workplaces and with a storage room.

With regard to the average attendance of approx. 8 thousand people a day, the capacity of the public places (approx. 700) and study places (approx. 1200) and their long-term use, requirements for its horizontal and vertical communication accessibility, social and relaxation background, lighting, climatic and sound comfort etc., for special requirements, see the tables. Required entrance for wheel-chair users

With regard to the volume of the documents and their transfers, requirements for direct transport from/to storage rooms to desks, or to their background in the public zones. With regard to the volume of the temporarily stored documents (bookings) and to their necessary preservation, requirements for protected workplaces in the public zones (desks and their background) also in the individual workplaces with sufficient background (open and enclosed handling areas and temporary storage areas). With regard to the collection and storage of the personal data of the users and with regard to handling of cash, requirements for lockable premises, or safes in the workplace in the public zones (desks and their background).

Storage room of periodicals with parameters corresponding to library collections preservation (statics, climate, security, way of storage, transport connections), also reference libraries and collections, open access to documents and temporary storage areas.

### **Description of operation connections:**

External connections (outside NL CR): individual and group visits of users in the public zones and their long-term stays in the library premises.

External professional visits for consultations and business meetings (distributors, publishers and editors; cooperating libraries).

Receipt of documents from external sources to NL CR (post office, individual deliveries to the Reference and ILL Services Department and Periodicals Department). Dispatching of documents outside NL CR by means of post office or in other ways (all departments). Requirements are transfer/transport connections to the post office of NL CR that will not collide with public roads and transport.

External connections (other workplaces of NL CR): especially transport documents from/to the storage room, microfilming and digitalisation workplaces (Collections Management and Preservation Division), from/to individual workplaces of services (desks and their background) in connection to the lines of handling requirements of users. Transport of documents within the processing line from/to the Periodicals Department with connections to other workplaces - Acquisition Division and Collections Management and Preservation Division. Other unspecified connections to the other library workplaces. Receipt of material from the storage room in the usual extent. For receipt of material from storage room and waste - i.e. common waste and sorted waste in increased extent.

Requirements are direct transfer/transport connections between the relevant (mentioned) workplaces that will not collide with the public roads and transport.

Internal connections (in the department): direct communication and transfer/transport connec-

tions between the individual workplaces in both the public and non-public zones, especially within the lines of handling requirements of users, which will not collide with the public roads and transport.

#### **Division accessibility:**

Public zones accessible according to the determined specifications (checkpoints and posts), secured with anti-theft protection systems and monitored by CCTV. Non-public zones are under protection system and entry to them is only possible when accompanied by an authorised employee.

### **2.2.4 Collections Management and Preservation Division**

#### **National Archival Collection**

Operations and laboratories under NL administration where there are substances and materials requiring a specific regime and isolation from the other NL workplaces and services

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

#### **Description of activities:**

It ensures organisation and management of the largest library collections of NL CR and specialist care for them. The division is in charge of the National Archival Collection, the Universal Library Collection and the Study Collection, the total of almost 6 million library units (bound publications, posters, postcards, records, cassettes, microfilms, CD-ROM media etc.). The organization and management of collections include takeover of newly acquired documents from the processing line, their marking, adjustment, book binding (if necessary), creation of local catalogues, and revision of library collections and operation of storage rooms (dispatching and filing). The collections protection includes a basic care for library collections, including the checks of microclimatic conditions, prevention of occurrence of mould, including the interference (if necessary), book binding and re-binding, ambulatory collections repairs, mechanical decontamination, production of protective packaging, preservation microfilming and digitalisation. Within this sphere of activity it provides methodical and consultancy activities to institutions, ensures the operation of the Kramerius National Programme focused on preservation of documents threatened by acid paper degradation.

#### **Specific features as regards the construction programme:**

For its activities, Collections Management and Preservation Division needs specific premises, mainly storage room of library collections with strict microclimatic conditions equipped with compact and standard shelves, mechanisation for transport of documents (telelift), workplaces with a handling area and handy storage rooms. Collections preservation needs for its activities microfilming and digitalisation laboratory with handy storage rooms of documents and materials, with a storage room of archive and printing microfilms, data deposits, fume chambers for mechanical decontamination, workshops for book binding and production of protective packaging, microbiological laboratory, climatologist's office, workplace of vacuum drying, storage rooms for contaminated and cleaned and disinfected collections, special background for work with contaminated collections. Every operation requires specific conditions for its work (air-conditioning, special exhaustion of fumes or contaminated air outside the building, blackouts, sufficient bearing capacity of floors, voltage stabilisation, water treatment etc.). Detailed requirements of the individual specialised operations and storage rooms are specified in Appendix 1: Description

of selected storage rooms and premises under the administration of Collections Management and Preservation Division.

### **Description of operation connections:**

External connections (outside NL CR):

Various operations of the Collections Management and Preservation Division use external connections. This includes ordering external bookbinding of publications and acceptance of bound documents, supplying with various materials such as various kinds of cardboard, paper, linen, chemicals, films, takeover and dispatching of higher number of microfilms etc. The departments of the Collections Management and Preservation Division, mainly the Collections Care Department and Preservation Microfilming Department, where there will be handy storage rooms of material in consumption, should have an access to the supply ramp by means of suitably dimensioned corridors (lifts etc.). We expect transport of material e.g. on large pallets (cardboard) etc. In case of elimination of accident consequences, a big amount of books will be brought to the storage of contaminated collections on special trolleys or in cases. The transport of contaminated documents to this storage room must not threaten to contaminate other storage rooms of books and operations where they work with books that are not contaminated.

External connections (other workplaces of NL CR):

The workplace of collections organisation of the Collections Management and Preservation Division represents the end of the processing line and thus it accepts a large amount of publications from Acquisition Division and National Bibliography and Cataloguing Division. After they are catalogued (marked, adjusted etc.), the publications are handed over to the storage room or for external bookbinding. The documents from storage rooms are dispatched to reading rooms of the Public Services Division.

For receipt of material from storage room and waste - i.e. common waste and sorted waste in common extent + detailed specifications, Appendix 1: Description of selected storage rooms and premises under the administration of the Collections Management and Preservation Division

Internal connections (in the department):

The layout must respect the work connections of the individual departments and operations. The area of National Archival Collections must have a special solution as one unit including the storage room, reading room and other operations, separated from the other parts of the library. Other internal connections are especially between the Collections Revision Department and storage room of Library Universal Collection, Digitalization Department and Preservation Microfilming Department, Collections Care Department and storage room. A separated area connected to the Collections Care Department must also be created for work with contaminated collections.

### **Division accessibility:**

The National Archival Collection (red zone) accessible to the public in a special protection mode, specialised workplaces where there are toxic or other dangerous substances not accessible for the public and for the employee of the other divisions of NL CR, storage rooms secured by anti-theft protection systems and monitored by CCTV. Non-public (grey) zones are under protection system and entry to them is only possible when accompanied by an authorised employee.

## **2.2.5 Library System Department**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services



**Description of activities:**

It ensures the operation of the integrated library system, testing and introduction of new versions of the system or other subsystems, continuous maintenance and system supervision. It prepares imports and exports from the databases operated under the library system. It is authorised to negotiate with the library system supplier. It coordinates the preparation of the documents in the line and outputs from the library system. It provides trainings of the employees of the NL CR for work with the system. It participates in the research and development activities in its sphere of activity.

**Specific features as regards the construction programme:**

In all workplaces there are activities requiring office environment with standard equipment (computers with accessories, computer network, copiers, telephones, bar code/chip readers), supplemented with storage and handling or meeting area.

**Description of operation connections:**

External connections (outside NL CR): department does not have any specific requirements, standard post office

Usual number of external professional visits (consultations)

External workplaces (other workplaces NL CR):

Tight cooperation with Information Technologies Department, communication connections with Acquisition Division, National Bibliography and Cataloguing Division, Public Services Division, Collections Management and Preservation Division and Technical Support Department.

Receipt of material from the storage room in the usual extent. Waste - i.e. common waste as well as sorted waste also in common extent.

**Department accessibility:**

All the premises are under protection system. Entry for the public only when accompanied by the employee in charge.

**2.2.6 Technical Support Department**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

**Description of activities:**

The department of technical support centralises all the library and specialist activities concerning the retrospective conversion of catalogues in connection to various projects and programmes. Technical Support Department coordinates and provides technical aspects for RETROKON project, coordinates and provides technical aspects of the preparation of Czech national bibliography, provides organisation, technical and administrative support for Director of Library Collections and Services.

**Specific features as regards the construction programme:**

In all workplaces there are activities requiring office environment with standard equipment (computers with accessories, computer network, copiers, telephones, bar code/chip readers), supplemented with storage and handling or meeting area. Area for archiving of documents filed in the Library Collections and Services.

**Description of operation connections:**

External connections (outside NL CR):

Connection to the post office, forwarding office and filing room. Usual number of external professional visits (consultations)

External workplaces (other workplaces NL CR):

Technical support of the Library Collections and Services director, necessary location in close proximity to the Library Collections and Services director office.

Receipt of material from the storage room in the usual extent. Waste - i.e. common waste as well as sorted waste also in common extent.

**Department accessibility:**

All the premises are under protection system. Entry for the public only when accompanied by the employee in charge.

**Providing services for servers, network and end stations**

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

Workplaces managed by external entities.

**Description of activities:**

Providing services for servers, network and end stations. The activities will be ensured mainly by the employees of the Information Technologies Department, or external workers in cooperation with these employees.

Specific features as regards the construction programme:

In all workplaces there are activities requiring office environment with standard equipment (computers with accessories, computer network, copiers, telephones, bar code/chip readers), supplemented with storage and handling or meeting area.

The workplace will also have a room where servers and data deposits will be located (there will be special requirements for placing - with regard to interconnection with all VT in the building it is not suitable to situate it "at the edge", structural adjustments, air-conditioning, security etc.), also a handling area for work with the computing technology operation.

Description of operation connections:

External connections (outside NL CR): connection to the Information Technologies Department's part that will stay in Klementinum.

Usual number of external professional visits (consultations, visits of external co-operators (companies)).

External workplaces (other workplaces NL CR):

Tight cooperation with Library System Department, communication connections with Acquisition Division, National Bibliography and Cataloguing Division, Public Services Division, Collections Management and Preservation Division and Technical Support Department

Receipt of material from the storage room in an increased extent. Waste - i.e. common waste as well as sorted waste also in common extent, occasionally bigger amount of waste.

**Department accessibility:**

All the premises are under common protection system. Entry for the public only when accompanied by the employee in charge. The room of servers under strict protection system.

Ensuring of building administration, operation and renting

Common operation zone under NL administration accessible only for NL employees and for the public only when accompanied by a specialist of Library Collections and Services

Workplaces managed by external entities.

## Public Area

### **Description of activities:**

Ensuring of the common building operation, including security and cleaning (a significant share of outsourcing is expected), post office, filing room and forwarding office and the connected archiving. Provision of transport and storage of material (a detached workplace of the Library Operation and Management Division). Ensuring of renting of a part of the building (a detached workplace of the Centre for Communications).

### **Specific features as regards the construction programme:**

In this zone highly variable operations will be situated - from common offices, service reception and security control room and building administration (parts that must be situated in the building, not in the workplace of an external entity in charge of the building operation), to the ramp for material loading/unloading including the adjacent premises for its sorting and storage rooms for short-term and long-term storage of material. There will also be an office (a detached workplace) of the Centre for Communications used for negotiations of leases of the new building and also a filing room for the public.

### **Description of operation connections:**

External connections (outside NL CR): connections to the workplace of external entity in charge of the building operation.

External workplaces (other workplaces NL CR): tight connection of the Centre for Communications and of the Library Operation and Management Division detached workplaces to the central workplace in Klementinum.

### **Department accessibility:**

All the premises are under protection system. With the exception of the workplace of the Centre for Communications, entry of the public only when accompanied by an authorised employee. The workplace of the division of communication must be situated in the area accessible for the public without limitation.

### **Parliament library (depository)**

Workplaces managed by external entities.

A common operation zone under the administration of the Office of the Lower House of the Parliament of the Czech Republic accessible only for employees of the Parliament library and for the public only when accompanied by a specialist employee of the PL

### **Description of activities**

Parliamentary Library is an organisation unit of the Czech Republic - Office of the Lower House. The library is a librarian and information workplace of the Lower House and the Senate of the Czech Republic.

The role of the company is to provide information and library services to MPs and senators, bodies of the Lower House and Senate, organisation bodies and employees of the Office of the Lower House and of the Office of the Senate of the Czech Republic and other institutions and users. The Parliament Library is also a deposit library of the United Nations and in its collections it stores selected publications of important international institutions, e.g. Inter-Parliamentary Union.

Thanks to the profile of its collections, performed activities and orientation of the provided services, PL has a character of a specialist and scientific library.

### Specific features as regards the construction programme

Direct connection of the depository to the PL reading room, PL reference library and PL service desk

Book storage with parameters corresponding to the library collections protection (statics, climate, security). Compact as well as stationary shelves

Separate background, kitchen, showers, and toilets within the administered section

### Description of operation connections

External connections outside the building, individual supplies, personal delivery within the scope of the circulation of documents between the library and the depository

Direct connection of the reading room and storage room to loading and unloading (ramp)

External connections, user visits, individual or group stays in library premises

Waste - i.e. common waste as well as sorted waste also in common extent.

### Depository accessibility

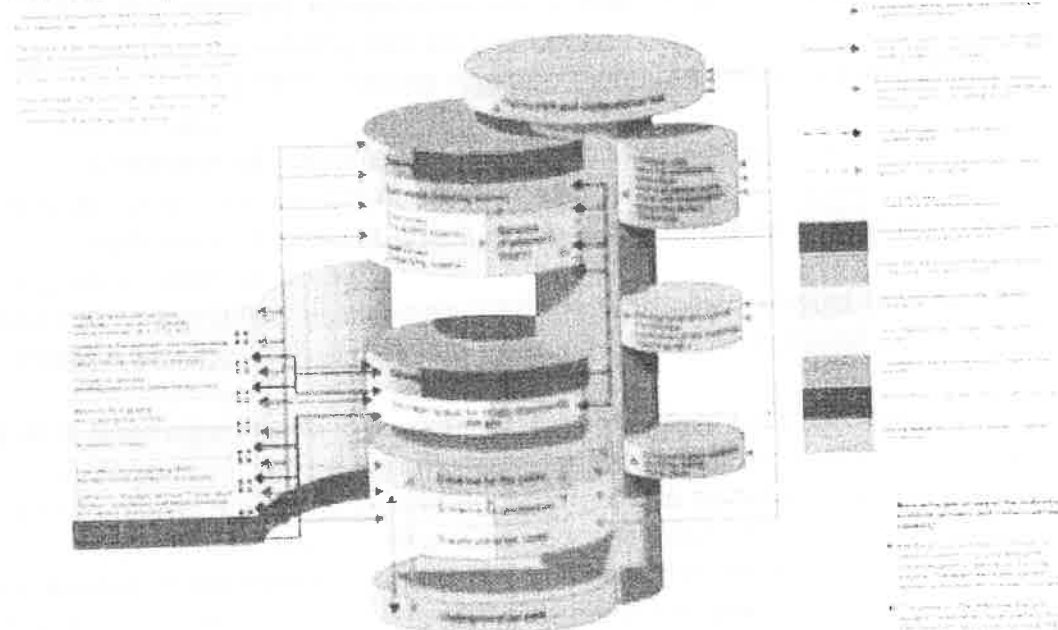
Public zones accessible according to the determined specifications (checkpoints and posts), secured with anti-theft protection systems and monitored by CCTV. Non-public zones are under protection system and entry is possible when accompanied by an authorised employee.

## 2.3 Operation scheme - movement of materials and people

Here a scheme will be inserted - A3 format spread over two A4.

### Operation scheme

(movement of people, money, documents, and other materials)





## **2.4 Description of selected storage rooms and premises under the administration of the Collections Management and Preservation Division**

### **2.4.1 Storage room of library collections**

The National Archival Collection and a part of the Universal Library Collection form the most important collection of modern Bohemian literature for the period from 1801 to present in the Czech Republic that must be preserved permanently, i.e. for unlimited time in future. This obligation, which is determined by law for NL CR, also applies to the other part of the universal library collection. Due to this reason the requirements for the parameters of the storage rooms of NL CR are much stricter than in any other library in the country. That is why the microclimatic parameters specified in a detailed table (see Appendix 2: Detailed description and dimensions of the individual workplaces) must be observed in all the storage rooms, and it is preferable to reach the temperature parameter by means of radiant heat or cold rather than excessive powerful air circulation. The building structure must ensure that even in case of a failure of all technical devices the temperature in the storage rooms does not exceed the parameters specified in the mentioned table, including the hottest summer days. As regards the collections preservation, the same applies to reading rooms. The storage rooms should be equipped with an electronic safety and fire-protection system and self-extinguishing system that do not damage paper, leather and other materials from which the documents are made. As regards minimising of risks, the core of the preservation collections must not be located on underground storeys and on the top over-ground storey. Above the storage rooms and inside the storage area there must not be any water, waste or other distributions that can cause flooding or fire. Due to this reason premises like a restaurant, a literary café etc. should not be located above the storage rooms and in their proximity. Heating in the storage rooms and reading rooms should be regulated centrally. The employees or readers must not interfere with the heating regime.

### **2.4.2 Microfilming laboratory**

The microfilming laboratory comprises of:

- laboratory of photography equipped with boxes for the individual cameras, voltage stabilisation, blackouts, air-conditioning,
- laboratory of film development equipped with water supply and water outlet through a panel ensuring water treatment (filtration, equalisation of pressure, mixing of hot and cold water to reach the required temperature etc.), blackouts, air-conditioning, washing tables, handling table, chamber for loading film into camera,
- laboratory of film copying equipped with blackouts, air-conditioning, handling table, readers, densitometer,
- workplace of visual check equipped with a reader, rewinder, densitometer, microscope, computer and handling table,
- workplace of content check equipped with readers, densitometer, ultrasonic joiner, handling table, shelf for books.

Apart from the office of the manager, the workplace should also comprise a storage room of microfilms, storage room of materials (films, developer) and storage room of documents for microfilming.

### **2.4.3 Storage room of archive and registry negatives**

The storage room will be used for permanent storage of archive or registry microfilms. The storage of archive materials should be situated at a geographically distant place and it must meet strict microclimatic parameters. The storage room of registry microfilms should be near the workplace of microfilming and it should have the same microclimatic conditions. The building structure of both storage rooms must maintain the given microclimatic conditions for a long time, even in case of a failure of technical equipment.

#### **2.4.4 Workshop of bookbinding and ambulant repairs**

The workshop uses bulky machines with higher weight. It must be equipped with working tables, shelves, required instruments (guillotine, lever shears, presses etc), electricity supply 220 and 380 V and air-conditioning. In the immediate proximity of the workshop there must be a storage room of bookbinding material.

#### **2.4.5 Workshop of protective packaging production**

The workshop will be used for production of boxes and covers for damaged or precious books. It will be equipped with a sampling cutting plotter, shelves, computer, electricity 220 and 380 V, handling tables and handling area for trolleys with cardboard and books. In the immediate proximity of the workshop there must be a storage room of cardboard with air-conditioning (18°C and 50 - 60 % RH) and a storage room of finished packaging with shelves and a handling table).

#### **2.4.6 Microbiological laboratory**

The laboratory ensures checks of occurrence of mould and possible interference on the spot in the particular storage room or in the disinfection workshop. The whole working place comprises of the actual laboratory equipped with an autoclave, fume chamber, aseptic box, microscope, fridge, washing tub, handling tables, measuring devices, electricity 220 and 380 V, distilling apparatus etc., a disinfection workshop, a storage room of chemicals and an office.

#### **2.4.7 Climatologist's office**

The climatologist's office ensures checks of microclimate in storage rooms and other areas where the library documents are handled. The office must be equipped with a computer connected to the measuring devices and the vacuum chamber.

#### **2.4.8 Workshop of mechanical decontamination**

In the workshop the collection is decontaminated by means of vacuum cleaner and Prus. The workshop is equipped with a fume chamber with exhaustion and conveyor belt, washing table, working table, compressed air and suction.

#### **2.4.9 Workplace of vacuum drying and packaging**

The workshop comprises of a workplace with a vacuum chamber, workplace of vacuum packaging and storage room of vacuum drying. The workplace should be equipped with a vacuum chamber, freezing boxes, handling tables, shelves, electricity 220 and 380 V, individual exhaustion of fumes outside the building. The workplace should be situated near the storage room of contaminated collections and storage room of disinfected collections and quarantine storage room. The employees operating the vacuum chamber will use a special background for work with contaminated collections (clean and dirty changing room, toilets, showers, relaxation and dining area).

#### **2.4.10 Background for work with contaminated collections**

A part of the background will be clean and dirty changing room with a fungicidal lamp for disinfection of clothes and complete background (toilets, showers and washroom) in two versions for NL CR and for the company, always for 5 people. The other background facilities (kitchen, relaxation area and dining area) will be common for the total of 10 employees, and technological area equipped with electricity 220 and 380V, with individual exhaustion and sufficient bearing capacity of floors.

#### **2.4.11 Storage room of contaminated collections**

The storage room should be equipped with a stationary shelving structure, individual exhaustion

and air-conditioning. It should be situated near the workplace of vacuum drying, the workshop of mechanical decontamination and background for work with contaminated collections.

#### **2.4.12 Quarantine storage room**

The storage room should be equipped with a stationary shelving structure, individual exhaustion and air-conditioning. It should be situated near the workplace of vacuum drying, the workshop of mechanical decontamination and background for work with contaminated collections.

#### **2.4.13 Storage room of disinfected and decontaminated collections**

The storage room should be equipped with a stationary shelving structure, individual exhaustion and air-conditioning. It should be situated near the workplace of vacuum drying, the workshop of mechanical decontamination and background for work with contaminated collections.

### **2.5 Detailed description and dimensions of the individual workplaces (Excel tables)**

1.3.	Public Services Division, including the public zone	10 398
	1.3.1. Public Services Department	
	1.3.2. Reading Rooms Department	
	1.3.3. Reference and ILL Services Department	
	1.3.4. Periodicals Department	
	1.3.5. Technical Support and Development Department	
1.4.	Collections Management and Preservation Division	27 052
	1.4.1.-4. Collections Management Department	
	1.4.5.-7. Collections Preservation Division	
	1.4.8. Library collections – storage rooms	21 542
1.5.	Library System Department	81
1.6.	Technical Support Department	71
2.	Information Technology Department	200
3.	Library Operation and Management Division + external companies	1 656
4.	Parking	4 050
	Parliament Library	1 397
<b>TOTAL</b>		<b>50 049</b>

## NATIONAL LIBRARY OF THE CZECH REPUBLIC – LIBRARY COLLECTIONS AND SERVICES

TABLE OF AREAS ACCORDING TO THE FORECAST AS OF 2050

	sq m	sq m
1.1. Acquisition Division		3 466
1.2. National Bibliography and Cataloguing Division		1 679
1.3. Public Services Division, including the public zone		10 398
1.3.1. Public Services Department		
1.3.2. Reading Rooms Department		
1.3.3. Reference and ILL Services Department		
1.3.4. Periodicals Department		
1.3.5. Technical Support and Development Department		
1.4. Collections Management and Preservation Division		27 052
1.4.1.-4. Collections Management Departme		
1.4.5.-7. Collections Preservation Division	21 542	
1.4.8. Library collections – storage rooms		81
1.5. Library System Department		71
1.6. Technical Support Department		200
2. Information Technology Department		1 656
3. Library Operation and Management Division + external companies		4 050
4. Parking		1 397
Parliament Library		
<b>TOTAL</b>		<b>50 049</b>





## International Architectural Competition

The New Building of the National Library of the Czech Republic

Information Competition Regulations Photos Jury Registration Czech

# Competition Regulations

The National Library of the Czech Republic

in cooperation with

UIA – Union Internationale des Architectes, International Union of Architects

in compliance with UNESCO Standard Recommendations for International Architectural, Urban-Planning Competitions and UIA Instructions for International Competitions and Urban Planning, in compliance with Act on Public Procurement,

in compliance with laws valid in the Czech Republic, in particular:

- in compliance with Act no. 360/ 1992 Coll., on Professional Practice of Certified Architects and on the Professional Practice of Certified Engineers and Technicians Active in Construction as amended,
- Act on Urban Planning and Building Code (Building Act),
- and in compliance with the provisions of Act no. 121/2000 Coll., on Copyright, Rights Related to Copyright and Modification of Certain Acts,

announces

**The International Architectural Design Competition**

for the architectural design and choice of an architect for the project documents of

**The New Building of the National Library of the Czech Republic in Prague**

at the address Milady Horákové Avenue, Prague 7 - Letná

and issues therefore

the Competition Regulations and Relevant Documents for an International Competition.

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Promoter of the competition  
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Anonymity  
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List of jury members and the deputies  
Prizes and honourable mentions  
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Clause on copyright and publication of designs  
Settlement of disputes  
Approval of competition regulations

## 1. PROMOTER OF THE COMPETITION

### 1.1 Authorised representative

National Library of the Czech Republic  
acting through Mr.Vlastimil Ježek, director – general of The National Library  
with its registered office at Klementinum 190, 110 00 Prague 1, Czech Republic  
tel.: +420 221 663 262  
fax.: +420 221 663 261  
Tax Identification Number: CZ00023221

### 1.2 Responsible for the Competition Documents

National Library of the Czech Republic  
Investment Section in collaboration with its professional and technical consultants.

### 1.3 Secretary of the competition

National Library of the Czech Republic  
Ms Lili Langová, Investments Section,  
Klementinum 190, 110 00 Prague 1, Czech Republic  
tel.: +420 221 663 260  
tel.: +420 221 663 195 (for Czech competitors only)  
fax.: +420 221 663 261  
e-mail: lili.langova@nkp.cz

### 1.4 Professional and technical advisor

Mr.Zdeněk Janeček  
with its registered office at Nušlova St. 225b, 158 00 Prague 5, Czech Republic  
tel.: +420 222 221 492, +420 723 995 982  
e-mail: janecek.zd@seznam.cz

### 1.5 Experts

Mr.Tomáš Hájek  
Director General of the National Institute for the protection and Conservation of Monuments and Sites in Prague  
Mr.Václav Králíček

Head of the Department of Urban Development of the Institute for Development of the City of Prague

Mr. František Formánek  
1st deputy manager of Ministry of Culture

Mr. Jan Bürgermeister  
1st deputy manager of Mayor of the Capital of Prague

Mrs. Vladimira Koubová  
Director of the Department of Monuments protection, Ministry of Culture

**1.6 International Competition web site**  
[http://www.nkp.cz/competition\\_library](http://www.nkp.cz/competition_library)

**1.7 E-mail address for registration**  
[Competition\\_library@nkp.cz](mailto:Competition_library@nkp.cz)

## 2. SUBJECT AND PURPOSE OF THE COMPETITION

### 2.1 Subject of the Competition

The subject of the architectural competition is the design of the urban, architectural, technical and operational solutions for the new building of the National Library of the Czech Republic in Prague.

### 2.2 Purpose of the Competition

The purpose of the architectural competition is to choose, on the basis of a comparison of designs submitted, the best entry by a participant capable of creating the most suitable design in fulfilment of the promoter's requirements as laid down in these Terms, Conditions, and Relevant Documents.

### 2.3 Terms and conditions of the public procurement for services

The public procurement for services (for carrying out all performance phases of the project documentation i.e. elaboration of the documents for the planning and building permits, construction documents of the building design including all documents relevant to organisation, and budget as well as bidding documents, and for the author's site supervision of the realisation of the building) will be awarded to the winner(s) of the architectural competition. This will comply with Section 23, subs. 6, Act no. 137/2006 Coll., on Public Procurement in a negotiation proceeding without public notification.

If a winner(s) is from a country other than the Czech Republic, he/she shall conclude if necessary a contract and collaborate with an authorised architect / architectural team from the Czech Republic on all development phases of the project. This contract will be a part of the contract with the winner of the Competition.

## 3. TYPE OF COMPETITION

The competition is announced as an open international public anonymous 2 stage competition for architects / teams of architects who meet all requirements set forth herein (particularly in Article 5 hereof). The competition will be in two stages. At the end of the first stage, the jury will select a maximum of 8 projects, the authors of which will be invited to develop their proposals in the second stage.

## 4. METHODS OF ANNOUNCEMENT OF THE COMPETITION

### 4.1 Date of competition announcement

The date of the competition announcement is May 16, 2006. (competition regulations including the registration form)

The competition documents will be made available by the promoter on the web site of the National Library to each registered competitor in the middle of the registration period. The password will be sent to each registered competitor.

### 4.2 Form of competition announcement

The professionals will be informed about the competition by UIA. Press releases will be sent to:

- All UIA member organisations,
- International and professional press,
- International organisations – choice made by UIA,
- Foreign embassies in Paris,
- Architectural museums and galleries,
- Subscribers of the UIA personal information service,

Publishing of this information in the UIA Newsletter.

Announcement on UIA web pages.

Continuous information in the UIA office

In the Czech Republic on the central address ([www.centralniadresa.cz](http://www.centralniadresa.cz)), on the web address of the Czech Chamber of Architects ([www.cka.cc](http://www.cka.cc)) and in one nation-wide daily newspaper.

### 4.3 Registration

Applications to enter the Competition shall be submitted in writing, by post, by fax or by e-mail, using the registration form provided by the promoter on the web site of the National Library and must reach the Competition Secretariat (see article 1.3) no later than June 30, 2006. Applications shall indicate:

- the individual competitor or team representative's full name and nationality,
- full contact details including telephone and e-mail address (fax number),
- copy of documents concerning his/her professional qualifications (see Article 5.1.1- 5.1.2),
- copy of the bank transfer showing that the registration fee has been paid.

### 4.4 Registration fee

The non-reimbursable registration fee of CZK 6 000,- must be paid to the promoter of the competition:

Account name and number: National Library (Národní knihovna)

Bank identification: 0100

Swift code: KOMBCZPP

IBAN: CZ140100000356419570237

Bank Address: Komerční banka, a.s., Staroměstské nám. 24, 110 00 Praha 1

It is essential that the name of the individual competitor or team representative registered for the competition be the same as that on the bank transfer. Bank charges shall be paid by the competitor.

### 4.5 The competition documents

should be made available to all participants at the same time – in the middle of the registration period (June 2, 2006). The relevant documents will be made available on the competition web site (.dwg, AutoCad 2006, .pdf, .jpg) of the National Library (see Article 1.5) to which competitors will have access, using a password which will be sent by e-mail to each registered competitor.

## 5. COMPETITION PARTICIPANTS

### 5.1 Meeting professional requirements

5.1.1 Architects (architectural teams) may participate in the competition, if they meet the following requirements:

- a) Architects participating in the competition shall be licensed / certified / registered / authorised in a professional body in their country,
- b) Architectural teams participating in the competition shall have at least one licensed/certified/registered/ authorised architect who will be the team leader.

5.1.2 At the time of registration, competitors shall prove their professional competence by a duly certified copy of a formal document on their licence /registration / certification/ authorisation.

5.1.3 All competitors, who advance to the Stage II, shall submit a bank declaration proving financial solvency. To maintain anonymity, this declaration will be received by a lawyer/notary. Their eligibility for stage II is dependent on this declaration. A winner of the competition shall submit documents on their integrity at the latest before signing the contract otherwise he/she will not be eligible to receive the contract for the commission.

5.1.4 Should a winner of the competition not meet the set forth professional prerequisites (or should he/she give false data in his/her portfolio), the commission shall be discussed with the next ranked competitor.

## 5.2 Persons excluded from the competition

Persons are excluded from the competition who:

- 5.2.1 Have participated directly in the preparation of the competition assignment and in competition announcement;
- 5.2.2 Are jury members, experts invited by the jury or staff assisting the jury;
- 5.2.3 Are the spouses, direct relatives, brothers- or sisters-in-law, direct superiors or collaborators with excluded persons. This stipulation also applies to members of local government and administrative authorities including the promoter;

## 6. COMPETITION DOCUMENTS PROVIDED TO COMPETITORS

### 6.1 Program and Basic information

- Historical development of the area
- Development rules, technical description of the area designated for location of the building including its engineering-geological surveys
- Specific requirements concerning the function of the Library
- Program of the Library

6.2 Tables to be filled with summaries of surfaces and volumes of the submitted design.

6.3 Photographic documentation of the building site

6.4 Aerial photographs of Letna

6.5 4 photographs designated for renderings of the proposed building volumes.

6.6 Informative map data

- Geodetic survey,
- General layout plan of infrastructure networks (this will be available for participants of stage II of the Competition),
- Cross section A-A' through planned tunnel,
- Cross section B-B' through planned tunnel, of the urban transport round.

6.7 General layout plan. – 1 : 500

6.8 Layout plans

Layout plan – for an insertable model of the New Building – 1:500

6.9 General layout plan – Reference points for photographs (6.5) including camera coordinates. 1:2000

6.10 Additional documents will be available to selected competitors for stage II including a new password.

## 7. QUESTIONS AND ANSWERS

7.1 Any competitors wishing to obtain further information may send questions in writing, by fax or e-mail, to the Competition Secretariat. All such queries received within the deadlines indicated in Art. 15 will be answered and displayed on the competition web site of the National Library. Competitors shall use their password. This document will then be considered to be an integral part of the competition brief.

## 8. STAGE I OF THE INTERNATIONAL COMPETITION - DOCUMENTS TO BE SUBMITTED BY COMPETITORS

Competition entries shall use only the English language.

### 8.1 Plans shall comprise:

- a. General layout plan of the area in scale 1 : 500 (traffic serviceability, accesses, and designated public space with a footprint of the future Addition of the National Library that is planned to be built after 2040). For purposes of this layout plan competitors should assume that the program for the Addition should be approx. 25 – 30% of the New Building of the National Library. The future Addition should be designated primarily for storage and other desirable functions.
- b. Perspective views of a general architectural design of the New Building only (without new Addition) introduced into 4 photographs marked F1, F2, F3, F4, in A3 formats.
- c. Floor plans of all floors in scale 1 : 500 with schematic presentation of interior and description of summaries of functional areas,
- d. All elevations in scale 1:500.
- e. Cross sections illustrating basic principles of a structural design of the building in scale 1:500 (one of them shall be presented into the plan 6.6 – Section A-A),

Plans shall be submitted on a maximum of 6 separate sheets, format A1 (594x840), portrait position. Plans shall be also submitted on 2 CD carriers in .PDF format (A3 format). Colours are not prescribed.

The A1 sheets shall be glued on a solid base and submitted in an opaque and solid sealed package.

An identification code, to be chosen by the competitor, comprising a six-digit number followed by 2 letters, 10mm high, will be located on the bottom left-hand corner on each sheet. On the bottom right-hand corner, there will be a separated frame 30 x 30mm designated for the number of the drawing. The Title: The New National Library of the Czech Republic should appear on each sheet.

### 8.2 Descriptive report including tables

A general report shall include a brief and clear explanation of the basic principles of the design with particular emphasis on:

- 8.2.1 Location of the building on the designated site,
- 8.2.2 General concept of the architectural design,

8.2.3 Simple description of operational and spatial relations inside the building,

8.2.4 Brief technical description of the structural design and materials used,

8.2.5 Table calculation of areas and volumes inserted into the sample tables covering all floors as well as the building as a whole. (see 6.2)

The required text shall not exceed three A4 pages. The report including the required text and the tables shall be submitted in three printed copies. The report will be also stored on 2 CD carriers together with the plans. All that shall be included, together with the plans, in a solid and opaque sealed package.

### 8.3 Model in scale 1:500

One simple volume model of the New Building in white colour shall be placed on a panel with dimensions as set forth in the competition documents under Article 6.8.

During evaluation, model will be inserted into an existing model of the Letna site. An identification code identical to the panel comprising a six-digit number followed by 2 letters, 10mm high, shall be located on the underside of the panels under the model. Model will be packed into a solid opaque package. It is possible to send it in a separate package.

### 8.4 "Identification" Envelope

An envelope with the inscription "Identification" shall contain names, addresses and signatures of authors, co-authors and the above mentioned 2 CD carriers with plans in .pdf format (A3 format) as well as the report in .doc or .xls (in case of tables) formats. The identification code comprising the six-digit number and 2 letters, 10mm high, will be on the front side of the envelope. It shall be sealed, completely opaque and placed together with the plans in a solid package.

## 9. STAGE II OF THE INTERNATIONAL COMPETITION - DOCUMENTS TO BE SUBMITTED BY SELECTED PARTICIPANTS

The selected Stage II participants who submit qualified Stage II proposal will receive a fee of EURO 20.000 each.

The Jury has the right to modify requirements for submission of Stage II.

Competition entries shall use only the English language.

### 9.1 Plans of the stage II shall include:

a. General layout plan of the area in scale 1 : 500, including landscaping together with the design of the designated public space with new Addition of the National Library that is planned to be built after 2040. For purposes of this layout plan competitors should assume that the program for the Addition should be approx. 25 – 30% of the New Building of the National Library. The future Addition should be designated primarily for storage and other desirable functions.

b. Perspective views of a general architectural design of the New Library only (without new Addition) introduced into 4 photographs marked F1, F2, F3, F4, on A2 format.

c. Floor plans of all floors in scale 1 : 250 including equipment and description of areas and their functions.

d. All elevations of the New Library only (without the future Addition) in scale 1:250.

e. Cross sections illustrating a structural design of the building in scale 1:250 (one of them shall be presented into the plan 6.6 – Cross Section A-A).

f. Perspective view of the entrance hall looking from the building entrance on A2 format.

g. 2 perspective views into interiors of main spaces such as reading hall etc. on A2 format.

h. Elevational detail in scale 1 : 50 including its description.

Plans shall be submitted on a maximum of 12 separate sheets, format A1 (594x840), portrait position.

Plans shall be also submitted on 2 CD carriers in .PDF format (A3 format). Colours are not prescribed.

The A1 sheets shall be glued on a solid base and submitted in an opaque solid sealed package.

Identification of the documentation will be identical to Stage I.

### 9.2 Report including tables

A general report shall include an explanation of the principles of the design, with particular emphasis on:

9.2.1 Location of the building in the designated area,

9.2.2 Concept of the proposed architectural design,

9.2.3 Description of operational and spatial relations inside the building,

9.2.4 Technical description of the structural design and materials used,

9.2.5 Table calculation of areas and volumes inserted into the sample tables covering all floors as well as the building as a whole ( see 6.2).

The required text shall not exceed 8 A4 pages (excluding tables) and shall be submitted in three printed copies. The required text will be also stored on 2 CD carriers together with the plans – as in stage I. All that shall be put together with the plans in a solid and opaque package.

### 9.3 Model in scale 1:500

Their material and colours of the model are not determined.

One model of the New Building will be elaborated in more detail than for stage 1 and shall be placed on a panel with dimensions set forth in the competition data documents under Article 6.8

During evaluation, the model will be inserted into the existing model of the Letna site. The identification code identical to the panel comprising a six-digit number and 2 letters, 10mm high, shall be located on the underside of the panel under the model. Model will be packed into a solid and opaque package. It is possible to send it in a separate package.

### 9.4 "Identification" Envelope

The envelope with the inscription "Identification" shall contain names, addresses and signatures of authors and co-authors and 2 CD carriers with plans in .pdf format (A3 format) and a manual in .doc or .xls (in case of tables) formats. It shall be also placed together with the plans in a solid package sealed and completely opaque. The author's name shall be identical with the author's name given in stage I. The identification code ( the same as in stage I) comprising six-digit number and 2 letters, 10mm high, will be located on the front side of the envelope. It shall be also placed together with the plans in a solid package sealed and completely opaque.

## 10. ANONYMITY

Valid for both stages.

Designs will be presented anonymously with an identification code chosen by the competitor and made up of a six-digit number and 2 letters, 10mm high. Therefore, no part of a competition design shall contain a signature, password or any other graphical mark which could lead to breach of anonymity. The only exception is the content of the sealed and opaque envelope with inscription "Identification".

On receipt of the submissions, the Technical Committee will mask the competitors identification codes by a serial number to be used throughout the jury meeting. A register containing the identification codes and the corresponding serial numbers will be logged with the lawyer/notary until the jury has made its decision.

At the end of the first stage adjudication, the envelopes corresponding to the selected entries will be opened by the lawyer/notary who will notify the authors that they are invited to go ahead to the second stage and then re-seal them.

When anonymity has been lifted after the jury has declared the winning entries, all the envelopes will be opened.



Non-prize winning participants who wish to maintain anonymity during the public exhibition of projects, should indicate this wish in separate declaration in the "identification" envelope.

## 11. ORGANISATION AND CO-ORDINATION OF THE COMPETITION

### 11.1 Professional and Technical Advisor

The Professional and Technical Advisor will ensure that the competition timetable is respected, he will supervise the registration of competitors, the reception of questions, and the dispatching of the promoter's replies to all competitors on web site, supervise the reception of competition entries and respect, at all times, the competitor's anonymity. He will control the work of the Technical Committee, assist the Jury and be present during adjudication.

### 11.2 Technical Committee

A Technical Committee will be appointed by the Promoter and will work under the control of the Professional and Technical Advisor. It will check that entries fulfil the mandatory requirements for the Competition.

The Technical Committee will take no part in the adjudication process, nor may it eliminate any entry. It will point out to the Jury any deviation from the program or regulations, also with regard to the deadlines established for the Competition.

### 11.3 Experts

It is upon the decision of the jury if experts are invited.

## 12. EVALUATION CRITERIA OF THE JURY

### 12.1 Deliberations of the jury

At its first session, the jury will elect its President, note the evaluation criteria set by the promoter and possibly add other criteria as necessary. The method of working will be decided upon.

If a regular jury member is absent from the first meeting, he or she will be replaced by a substitute member for the rest of the meeting. If a regular member is absent for a short period, he or she will be replaced temporarily by a substitute member. Any vote taken will be valid. Deputy jurors must also be present at all sessions of the jury and can participate fully in the discussions.

Decisions will be taken by majority vote. In the case of a tied vote, the vote of the President of the jury will be counted as two votes.

### 12.2 Evaluation criteria

The criteria for the evaluation of the competition designs are as follows:

12.2.1 Quality of the overall design with regard to the location of the building in the designated area.

12.2.2 Comprehensive architectural quality of a design, including design of interior spaces.

12.2.3 Quality of functional, layout and operational designs.

12.2.4 Extent of compliance with program requirements.

12.2.5 Economic and operational feasibility.

### 12.3 Reasons for elimination from the competition

12.3.1 The jury shall eliminate from the competition all those designs that

- do not comply with content requirements of the announced Competition Regulation and Competition Program,
- do not comply with the anonymity requirements of the Competition Regulation and Competition Program,
- were not delivered within the required deadlines.

12.3.2 Competitors are aware of the fact that the jury is obliged to eliminate from regular evaluation all those competition designs that do not comply with the prescribed conditions included in the presented regulations.

12.3.3 The jury will decide about the invitation of other experts if and when necessary.

## 13. LIST OF JURY MEMBERS AND THEIR DEPUTIES

### 13.1 Jury members

The same jury will adjudicate both stages of the competition. The jury has eight members and four deputies and will meet, act, and decide in the following composition:

#### 13.2 Jury members

Ms. Zaha Hadid

Architect, Great Britain

Mr. Dominic Perrault

Architect, UIA representative, France

Ms. Irene Wiese-von Ofen

Architect, UNESCO representative, Germany

Ms. Eva Jiřičná

Architect, Great Britain

Mr. José Grinberg

Architect, Mexico

Mr. Petr Bílek

Architect, Czech Republic

Mr. Pavel Bém

Lord-Mayor of the Capital of Prague, Czech Republic

Mr. Vlastimil Ježek

Director-General of the National Library of the Czech Republic, Czech Republic

#### 13.3 Deputy jury members

Mr. John Eisler

Architect, U.S.A.

Mr. Tony McLaughlin

Architect, Great Britain

Mr. Jan Kněžínek

Director of Heritage Department, Municipality of the Capital of Prague, Czech Republic

Ms. Bohdana Stoklasová

Director of Library Collections and Services, The National Library of the Czech Republic, Czech Republic

## 14. PRIZES AND HONOURABLE MENTIONS

### 14.1 Prizes

The total amount for prizes: EURO 350,000

1st prize EURO 160,000

2nd prize EURO 120,000

3rd prize EURO 70,000

Based on recommendations of the jury, prizes may be distributed otherwise.

### 14.2 Honourable Mentions

The total sum for awards intended for non-winning designs which bring remarkable partial ideas and solutions and advance to the stage II, is EURO 90,000

1st honourable mention EURO 35,000

2nd honourable mention EURO 30,000

3rd honourable mention EURO 25,000

Based on recommendations of the jury, honourable mentions may be distributed otherwise.

### 14.3 The jury may award 2 – 3 first prizes ex aequo.

In such a case, after anonymity has been lifted and the competition results announced, the jury may decide to interview the ex-aequo winners to determine the outright winner.

### 14.4 Payment term of Prizes and Honourable Mentions

The promoter shall pay the prizes and honourable mentions no later than forty days after announcement of the competition results.

### 14.5 Taxation of prizes and awards distributed in the competition

- The Prizes and Honourable Mentions awarded to foreign competitors will be paid to the full extent and will be taxed accordingly in their country.
- Prizes and Honourable Mentions awarded to Czech participants will be dealt according to provisions of the laws in the Czech Republic.

## 15. COMPETITION TIMETABLE

### 15.1 Date of announcement of the competition

The date of announcement of the competition is set to May 16, 2006

### 15.2 Documents available on web site June 2, 2006

### 15.3 Deadline for applications for registration June 30, 2006

### 15.4 Limit for submission of competitors' questions July 7, 2006

15.5 Deadline for answers to competitors questions available on web site July 21, 2006

### 15.6 Deadline for submission of competition designs – stage I

The date of submission of competition designs in case of personal submission is set to September 29, 2006, from 08:00 to 14:00 hours

### 15.7 Deadline for reception of competition design - stage I

The date of reception in case of submission by post or courier service October 3, 2006

All participants (while respecting also the first date) will ensure that their entry reaches the promoter by the second date.

### 15.8 Date of evaluation meeting of the jury – stage I

The date of the jury meeting for evaluation of competition designs is set to October 23 - 26, 2006

### 15.9 Competitors selected to participate in stage II will be informed by solicitor/notary by November 6, 2006

### 15.10 Deadline for submission of competitors' questions – stage II is set to November 24, 2006

### 15.11 Deadline for replies to questions on the web site: December 8, 2006

### 15.12 Deadline for submission of competition designs – stage II

The date of submission of competition designs (from 08:00 to 14:00 hours in case of personal submissions) February 2, 2007

### 15.13 Deadline for reception of competition designs – stage II

The date of reception in case of submission by post or courier service February 6, 2007

All participants will ensure that their entry reaches the promoter by the second date (while respecting also the first date).

### 15.14 Jury meeting – stage II February 28 – March 3, 2007

### 15.15 Announcement of the competition results March 3, 2007

### 15.16 Exhibition of competition designs March 24 – April 29, 2007

### 15.17 Deadline for payment of prizes and honourable mentions April 10, 2007

## 16. SUBMISSION OF COMPETITION DESIGNS

### 16.1 Admissible methods of submission of competition designs – Stage I

Competition entries for Stage I shall be submitted either personally or by post or via a courier service (DHL, Fedex, etc.) to the secretary of the competition at the following address (see Article 1.3):

Národní knihovna (National Library)

Ing. Lili Langová, e-mail: lili.langova@nkp.cz tel.: 00420 221 663 195

Klementinum 190

110 00 Praha 1, Czech Republic

16.1.1 All competition entries will be marked on the package with a sign: This package does not have any commercial character.

16.1.2 By September 29, 2006, from 08:00 to 14:00 hours in case of personal submission. The secretary of the competition will issue a confirmation on submission of a design in writing. In case of submissions by post or via a courier service, entries must be dated 29 September at the latest.

16.1.3 The deadline for the reception of submissions by post or via a courier service: October 3, 2006.

All participants will ensure that their entry reaches the promoter by the second date (while respecting also the first date).

### 16.2 Admissible methods of submission of competition designs – Stage II

Competition designs of the Stage II shall be submitted either personally or via a courier service (DHL, Fedex, etc.) to the secretary of the competition at the following address (see Article 1.3):

Národní knihovna, (National Library)

Ing. Lili Langová, e-mail: lili.langova@nkp.cz tel.: 00420 221 663 195

Klementinum 190  
110 00 Praha 1, Czech Republic

16.2.1 All competition entries will be marked on the package with a sign : This package does not have any commercial character.

16.2.2 By February 2, 2007, from 08:00 to 14:00 hours in case of personal submission. The secretary of the competition will issue a confirmation on submission of a design in writing. In case of submissions by post or via a courier service, entries must be dated 29 September at the latest.

16.2.3 The deadline for the reception of submissions sent by post or via a courier service; February 6, 2006.  
All participants will ensure that their entry reaches the promoter by the second date (while respecting also the first date).

## 17. CLAUSE ON ACCEPTANCE OF COMPETITION REGULATIONS

Consent of competitors with the Competition Terms and Conditions.

By submission of a competition design, a competitor agrees with the Competition Terms and Conditions and commits him/herself to follow and observe these regulations.

## 18. CLAUSE ON COPYRIGHT AND PUBLICATION OF DESIGNS

### 18.1 Copyrights of competitors

Authors of competition designs may publish their competition designs after the announcement of the competition results (stage II). Should it happen before the announcement of the competition results, their designs shall be eliminated.

### 18.2 Permission to use authorial works for the purposes of this competition

Designs that have been awarded a prize or an honourable mention become the ownership of the promoter. Their authors grant their consent to the promoter for the use of their submissions for the purposes of this competition. However, any use of their authorial works for other purposes than the ones set forth herein requires authorisation by the authors. All drawings and plans, with the exception of those which have been awarded prizes or honourable mentions, will be destroyed after closing of the public exhibition unless the authors request their return at their own expenses. Models of entries which have not received prizes or honourable mentions, will be returned to the authors at the promoter's expense within one month after closing of the public exhibition.

### 18.3 Consent of competitors with exhibition of competition designs

By submission of a competition design, a competitor agrees with free reproduction and exhibition of his/her competition design for the promotion of the competition and its results. Images of the winning designs will also be published by the UIA on its web site and in its Newsletter.

### 18.4 Promoter's commitment to organise an exhibition of competition designs

The promoter commits himself to organise a public exhibition of all competition designs within three months after announcement of the competition results. Competitors who does not wish that their own competition designs be exhibited or that they be exhibited without the author's name shall express this wish in a separate declaration in the "identification" envelope.

### 18.5 Notification and announcement of competition results

The promoter shall inform competitors of the competition results. After final decision of the jury, the promoter shall announce the competition results in the same manner as the competition itself was announced.

### 18.6 Report of the competition jury: discussions and decisions

The report covering sessions and meetings of the jury, for Stages I and II and their results shall contain in particular:

- a. The minutes of jury's meeting, including the results of all votes,
- b. Decisions as to the elimination of a design from the competition,
- c. A list of all the accepted competition designs,
- d. A brief evaluation of all the competition designs having reached Stage II,
- e. The decision as to the granting of prizes and awards, including justification thereof,
- f. Attendance lists for jury members and experts for all sessions of the jury.

The report covering meetings and decisions of the jury shall be finally confirmed by signatures of all regular jury members. Should jury members expressly ask for it, the report shall state their different opinions. The promoter of the competition shall send the final report to all competitors, jury members, and the UIA secretariat.

## 19. SETTLEMENT OF DISPUTES

19.1 The jury members are the only arbitrators in all and any stages of the competition till the granting of prizes.

19.2 In case of dispute, which is not related to the processes of evaluation or granting of prizes, the case shall be resolved through arbitration proceeding approved by UIA without bringing the case to legal authorities of the organising country. A dispute shall be lodged with UIA within 14 days after delivery of the competition results.

19.3 Other arbitration proceedings could include appointment of three arbitrators: each party of a dispute would appoint one and the third one would be appointed by the UIA Commission for International Competitions.

19.4 Costs of a settlement process or arbitration proceeding will be divided between both concerned parties.

## 20. APPROVAL OF COMPETITION REGULATIONS

The competition was approved by the UIA in compliance with UNESCO Revised Recommendations for International Architectural and Urban-Planning Competitions. Should certain issues not be directly covered in the Competition Regulations, the promoter and jury shall refer to the UIA Guide. In case of dispute, the English language version of the Competition Regulations and Competition Program shall prevail.

These Competition Regulations were approved by the International Union of Architects (UIA).

Written documents concerning approval of the Competition Regulations are filed by the promoter of the competition – the National Library of the Czech Republic in Prague.