REPUBLIC OF CROATIA

Ministry of Physical Planning, Construction and State Assets

Earthquake Recovery and Public Health Preparedness Project (ER&PHPP)
Loan no: HR-9127

Terms of Reference

for

Detailed Structural Damage Assessments, Options Review and Analysis, including Engineering Designs (limited) for Targeted Buildings within the Fran Mihaljević Hospital Complex and Croatian Institute for Public Health (CIPH) building in Nazorova 53

Proc.ref.no.: MOPPCSA/ER&PHPP/ C1.2.5/CS-CQS

I. PROJECT BACKGROUND

The Government of Croatia and the International Bank for Reconstruction and Development (IBRD) have signed the Loan Agreement (Loan No. 9127-HR) in total amount of EUR 183,9 million (approx. USD 200 million) for the implementation of the Earthquake Recovery and Public Health Preparedness Project. Project Development Objective (PDO) is to assist Croatia with earthquake reconstruction efforts in Zagreb and the surrounding areas, improve institutional capacity for reconstruction, and strengthen national systems for public health preparedness. The project implementation period spans between 2020 and 2024. The Project comprises three components: (1) earthquake recovery and reconstruction; (2) public health surveillance and preparedness; and (3) project management. Part of the loan funds are intended to be used for reconstruction of buildings in health and educational sectors that were damaged in earthquakes. The Project is implemented by the Ministry of Physical Planning, Construction, and State Assets (MoPPCSA) and the Ministry of Health (MoH), in coordination with other institutions. The Project Implementation Unit of the MoPPCSA (PIU-1) is responsible for Component 1, as well as civil works under Component 2.

On March 22, 2020, the City of Zagreb was struck by the strongest earthquake since 1880, which severely damaged public buildings, hindering the effective delivery of health and education services and directly affecting the economy of the city and country. The earthquake has affected the delivery of critical health services by causing significant damage to public health capabilities and hospitals critical to both managing the current coronavirus disease 2019 (COVID-19) crisis and the health system overall. According to an assessment by the University of Zagreb, 137 health facilities were damaged by the earthquake. Several hospitals that previously had high occupancy rates suffered substantial structural damage, forcing the evacuation of patients. Restoring health system capacity for pandemic preparedness and response is a critical priority for the country. The rehabilitation of damaged buildings is important to ensure that the health system capacity is restored, and that Croatia is prepared to meet its national health care needs, including for future pandemics and natural disasters. For

example, the Croatian Institute of Public Health, which provides critical public health capabilities—including for managing pandemic events such as the current COVID-19 outbreak or any future waves of the same—was damaged by the earthquake, causing a temporary disruption in its services. **About the target buildings:** One of the key priorities for recovery investments in the health sector is the Fran Mihaljević Hospital Complex (FMHC) and Croatian Public Health Institute (CPHI) located at 53 Nazorova street Zagreb (further "Nazorova").

The FMHC an extensive layout of buildings, in all there are 12 buildings with widely varying sizes (see Annex 1 with a layout of the FMHC). The complex buildings are built using "pavilion style" except directorate building which is an individually protected cultural asset of great cultural value. List of the building is the following table:

Building no.	Description	Gross area (m^2)	Height (floors)	Initial damage assessment	Year built/ reconstructed
1	*Directorate, Main children exam room, Main admission building, architect Drago Ibler	685	G+2	U1	1933
2	Kitchen	267	G+2	U1	1925
3	Doctor's lounge	117	G+0	U2	1893-2009
4	Lecture room	276	G+0	U2	1893-2009
5	Radiology	143	G+1	U2	1892-2009
6	Pharmacy, Ultrasound, CT	91	G+1	U2	1893-2009
7	Intensive care unit	1049	G+2	U2	1893-2009
8	Sterilization	83	G+1	U2	/
9	Oxygen supply	20	/	/	/
10	Waste disposal	10	/	/	/
11	Auxiliary buildings	231	G+1	U2	1893-2009
12	Service tunnels, Used for utilities.	Aprox. 250 m'	/	/	/

* an individually protected cultural asset of great cultural value

See Annex 1 – sketch layout

The CPHI located at 53 Nazorova street Zagreb is a single building with indicative floor area of around 2,500 m2 with plans to develop diagnostic capacities, dormitory, and teaching rooms. Currently building remains vacant. Renovation of the existing building is planned at the location in question. The existing building is divided into a basement, ground floor and 3 floors and is based on strip reinforced concrete foundations. Total gross area is 2490 m^2, of which office area is 1222 m^2 and other areas are 1268 m^2. Geotechnical study including field testing has been done and the documentation would be available to the consultant. Building was built in 1930 by architect Stjepan Planić and it is in situated within a protected cultural and historical environment of city of Zagreb but holds no individual protection. See Annex 2 – layout and section.

II. SERVICE OBJECTIVE

Under the Project, component 1, sub-component 1.2. "Rehabilitation and Reconstruction of Health and Education Facilities" of this Project, consultancy services for studies, detailed designs and bidding documents will be financed. These terms of reference TORs concern preparatory technical studies.

The primary objective of this Consultant assignment is to support the MoPPCSA, MOH and the Fran Mihaljević Hospital to conduct a **HIGH-LEVEL structural assessment** (**Structural Condition and Vulnerability Assessment Study**) of 12 buildings on the FMHC as well as Nazorova building in terms of the **damage from the earthquake(s) and strengthen of structural** components of the buildings through retrofitting and rehabilitate/upgrade the buildings from architectural, mechanical engineering and plumbing, and Energy Efficiency point of view. Subsequently, an **option review and analysis** (alternatively termed a HIGH-LEVEL COST ESTIMATE for **Retrofitting)** would be prepared in which the structural assessment team would also develop cost estimates (and other factors) for **strengthening and rehabilitation as first option and demolition and reconstruction budget as second option**.

The Consultant will make new geotechnical investigation by means of site surveys, soil tests, laboratory tests, and shall prepare the geotechnical report complying with the current regulations of MoPPCSA. Before the site surveys, soil tests, laboratory tests, the Consultants inform the Client in advance, and take the approval of the Client about the location of the drill sites.

Associated task descriptions to satisfy the above listed assignment objectives are listed and detailed further on in these TOR.

III. SCOPE OF SERVICES, TASKS (COMPONENTS) AND EXPECTED DELIVERABLES

A review of the existing technical documentations of target 11 buildings should be undertaken before the Consultant develops their technical and financial proposals for both **Retrofitting, rehabilitation and energy efficiency upgrade option up to seismic resistance level 4 as well as new-construction option**.

Task 1: Review and Critically Assess Any Existing Damage Assessment Reports for the 12 Targeted Buildings

There may be a review of the existing technical documentations of target buildings available, which will be provided to the Consultant. The Consultant should review it in detail and prepare a detailed concise report summarizing the review of the initial damage assessment and its main findings would be submitted within two weeks of the commencement of the assignment. The review would also provide recommendations for task 2.

Task 2: Conduct Structural / Earthquake Engineering Damage and vulnerability Assessments of the 12 Targeted Buildings within the FMHC and CPHI

The Fran Mihaljevic and CPHI team would accompany the Consultant in the field visits to the FM Capus and Nazorova building with a Client's robust team of engineers to rigorously assess

the damage to target buildings and better understanding the damage done as well as residual strength of the critical structural components of the buildings. The Consultant will also collect relevant environmental information, e.g. presence of asbestos, lead pipes, radon releases, historical contamination, etc. The financial proposal will realistically reflect these non-incidental costs. This task is expected to require inadequate amount of field work.

The Structural / Earthquake Engineering Damage Assessments / The Structural Condition Assessment Study (SCAS) will contain, at a minimum:

- Review of existing hazard datasets and maps, including but not limited to seismic, liquefaction, land subsidence, fire and flood hazard data.
- Collection of satellite imagery and development of urban characteristics patterns
- Development of proxies for missing data
- Review of design documents and reports of recent inspections/building assessments
- Conducting a technical field visit to verify the seismic evaluation of the structures and deficiencies associated with selected structures,
    - Assessment of the building structure by means of surveying;
    - Reviewing existing construction documents,
    - Collecting as-built drawings (structural, architectural) and cross-checking the validity of through site audits, find out characteristics of the structures using available data, measurements, and other best practice techniques such as destructive and non-destructive testing,
- Condition assessment of the building by means of material testing,
    - Conduct destructive and non-destructive tests to find out the characteristics of existing materials and material properties sufficient to define the condition of the building per the requirements indicated in EuroCode8 and International standards. This methodology depicts the tests and testing procedures which include the number and type of tests.
    - The necessary material testing for masonry structures will be performed per EuroCode8 and the minimum material properties (modulus and shear capacity) will be verified using local and/or international standards.
- Assessment of the building by the means of site-specific geo-technical and geological survey,
    - Review available geotechnical and geological data to identify any potential for liquefaction, settlement and swelling of soil at site
    - Collecting the data relevant to seismic hazard analysis use existing knowledge for probable intensity of ground acceleration as a function of return period,
- Assessment of building structural vulnerability by the means of calculations, analysis and observations;
    - Compile the sets of information to program the subsequent phases of the studies,
    - Review all available construction documents for the building, including original structural and architectural drawings and specifications, any significant modifications or upgrades,
    - Identify structural defects, apparent detailing problems and structural configurations that cause unacceptable performance,
    - Perform a preliminary assessment to quantify the probable performance of the building structure to resist the effects of ground shaking,

        - Prepare quantitative analysis of existing structures and analyse the building for the required performance levels defined,
        - Compare available capacity and ductility with respect to seismic demand
        - Discuss the adequacy of the seismic-force-resisting system considering strength, ductility, and configuration issues,
    - Performance-based assessment to recommend conceptual upgrades and preliminary retrofitting schemes to overcome the vulnerabilities associated with the structures:
        - Noting sensitive areas of the building, such as historic spaces, traffic corridors, etc. that may not be impacted by seismic upgrade measures,
        - Discussing restrictions on placement of retrofit elements, relative to building appearance and functionality concerns,
        - Developing conceptual-level upgrade designs for retrofitting by taking national codes and specifications and provisions of this Methodology into consideration and identify the design criteria by using performance-based engineering,
        - Prepare computer models of retrofitted buildings and analyse the buildings using linear analysis methods, by an acceptable structural analysis program in 3-D (three dimensional),
        - Perform structural engineering calculations with added or modified structural elements to remedy seismic deficiencies in the building relative to the selected performance levels and confirm that the overall size and scope of the recommendations are appropriate,
    - Development of cost estimates for retrofitting and associated work (Prepare cost estimates for the recommended seismic upgrade work, for each alternative criterion, together with required collateral upgrades);
        - Calculate retrofitting and costs by using the outcomes of the structural model prepared in accordance with local market costs.
        - Calculate replacement cost for each building using latest unit prices and costs of relevant Ministry or local market practices for re-construction of the buildings, and indicate ratio of retrofitting cost to replacement cost; for each alternative developed,
        - Compare costs considering approximately 0.4 in general as an acceptable ratio of the cost of retrofitting to the cost of replacement, as well as other factors that are relevant to particular cases and repairing costs combined with retrofitting costs to replacement cost,
        - Calculate benefit-cost analysis in accordance with the benefit and cost elements determined, in cooperation with Client.
    - An elaborated feasibility of the existing condition of the building structure, which assesses whether the damaged building is suitable for reconstruction at all and whether the reconstruction of the building structure is sufficient action, or additional interventions to improve other Basic Building Requirements are required
    - The required level of reconstruction/reinforcement of the structure and / or the assessment that the building has lost its mechanical resistance and / or stability to the extent that it has collapsed or that its restoration is not possible nor economically justified
    - A description of the expected interventions on the structure / building with technical solutions for the reconstruction of the building structure and guidelines

for the development of the project for the for the overall reconstruction of the building

- Validation of assessment results by PWG and finalization of outputs and cross-referencing of final results

Each critical structural member of buildings will be assessed individually as to the extent of damage to the individual members and the aggregate of the structural members will be holistically assessed in terms of the structural stability of each of the buildings.

A Damage and Vulnerability Assessment Report will be issued by the Consultant to document the degree of structural integrity (or lack of it) of buildings. The report must be supported by structural drawings for each of the three buildings in order for the Client and World Bank to better understand the text describing the complexities.

The results of the Damage and Vulnerability Assessments will be the technical basis upon which the next task – Options Review and Analysis – depends upon to determine the major decisions required to be made by the Client as to the options of stabilizing, strengthening, and rehabilitating the buildings or demolishing and reconstructing totally new facilities.

Task 3: Development of an Options Review and Analysis for Each of the targeted 12 Buildings

Based on the Damage Assessment Report, the engineering and architectural teams will work together to develop the recommendations and plans of the works required to stabilize, strengthen, and rehabilitate buildings or to demolish and reconstruct them. Along with technical materials describing solution for retrofitting for Level 4 mechanical stability and energy efficiency, Consultant will develop cost estimates (and other factors) for strengthening and rehabilitation. Further, Consultant should consider following factors in the delivery of task 3.

a. Following the results of the Damage Assessment and its report, the Consultant will calculate the costs of rehabilitation versus demolition / reconstruction. The Client will have some standard factors used to determine the tradeoffs in costs between the two main options for each building.

b. Other considerations in the final determination would include the following but not limited to these:

   (i) Environmental social considerations per site. The Consultant will have two team members who will provide guidance to the Client and World Bank on all safeguard issues.

   (ii) Considerations for runoff / drainage management (also covered under the safeguards considerations).

   (iii) Ability of a rehabilitated facility to professionally manage and dispose of hazardous wastes according to the current national standards as compared to a newly reconstructed building.

   (iv) Level of construction risk related to implementation of rehabilitation civil works contracts as compared to demolition / reconstruction

(v) Any other aspects that may stem out of previous tasks.

The Consultant will develop and issue an **Options Review and Analysis Report** providing the Client with their recommendations for rehabilitation or demolition / reconstruction for each of the target buildings. These recommendations will be supported by the extensive documentation prescribed under these TOR to get to the point of making firm recommendations. An executive summary of the Options Report is required. Ensure designs are developed in line with the Project Environmental and Social Management Framework (ESMF), World Bank Environmental and Social Framework (ESF) and World Bank's Environmental Health and Safety Guidelines (EHSG), in particular those on life and fire safety, energy conservation, wate conservation, hazardous materials and hazardous waste management, emergency prevention and response, and other applicable, as well as Good International Industrial Practices and national regulation. Ensure all activities carrying high-risk risks and impacts (in any life-cycle phase of the sub-project) and land expropriation and/or involuntary resettlement are excluded from the design.

IV. SUBMISSION AND TIME SCHEDULE FOR DELIVERABLES, CONTRACT DURATION

During the service period it should be noted by the Consultants that prepared designs/details/calculations/reports/specifications and other documents submitted to the Client for approval will be reviewed by the Client and approved or returned for revision and/or resubmission in **15 calendar days**. Following received inputs / comments, the Consultant will submit final report within 7 calendar days.

The Consultants shall submit all the documents in a timely manner to complete the services on time without any delay. Time schedule for the completion of the consultants' services for the various parts of the Project is given below.

a) Review of Any Existing Damage Assessment Reports: It is expected that the Consultant would complete this task within two weeks of commencing their consultancy assignment and issue a draft report within the indicated period. This will encompass targeted 12 buildings on the FMHC and CPHI building.

b) Structural Damage Assessment: The Consultant is expected to complete all of the field work and testing for the Damage Assessment and issue a draft report within three months of the commencement of the assignment. This will encompass all targeted 12 buildings on the FMHC and CPHI building.

c) Options Review and Analysis: Following the completion of the Structural Damage Assessment, the Consultant will be expected to develop the draft Options Review and Analysis Report and discuss it with the Client. This is expected to require 20 days following the completion of the Structural Damage Assessment, including the discussions with the Client to produce the final Options Review and Analysis Report. This task will also encompass targeted 12 buildings on the FMHC and CPHI building.

The following table provides an overview of the expected time schedule for the Consultant's assignment:

No.	Deliverable	Delivery time [days] from the date of the Contract entering into force
1.	Review of Existing Damage Assessment Reports or other relevant correspondences	14 for draft report
2.	Structural Engineering Damage Assessment Report	90 days following approval of the previous report
3.	Options Review and Analysis Report	20 days following approval of the previous report

Any delays in the preparation and the completion of the various outputs of the assignment will directly affect the planned commencement date for construction works and construction period, the Consultants will prepare all outputs with due care and diligence during the envisaged periods so as not to cause any delays. These designs shall be prepared in coordination with MoPCCSA and considering requirements of the FMHC and the MoH to assure the best usage of the facilities.

V. SUBMISSION OF REPORTS, DRAWINGS AND DOCUMENTS

The Consultants shall prepare and submit to the Client various reports, drawings and document that are specified in or that are implied from these Terms of Reference in respect of various components of the Projects as described in the Terms of Reference.

As detailed in the above sections of this TOR, the following reports would be required of the Consultant.

a) Review of Existing Damage Assessment Reports or other relevant correspondences.

b) Geomechanical report

c) Structural Engineering Damage Assessment Report

d) Options Review and Analysis Report

The Consultants shall prepare and submit a progress report satisfactory to the Client each calendar month, The Consultants shall also clearly indicate in the report whether the delay (if any) of any part of the works will cause any delay in the completion of the whole Works. The report shall also give information about personnel employment status of the Consultants.

The report shall be submitted to the Client by the tenth day of following month. Any comment by the Client on the report shall be reviewed and the report shall be modified and re-submitted to the Client within 7 (seven) calendar days.

The requirements for the submission of reports, drawings and other documentation are given below. Reports shall be prepared in both Croatian and English languages. The metric system of weights and measures shall be used.

Submission shall be as follows:

a) General

- Format of Reports: A4 or A3, including where appropriate drawings reduced to A3 size.
- Format of Drawings: A1 and/or A0 size.

b) A draft copy (Croatian 2, English 2) of all reports shall be submitted to the Client in advance for discussion purposes following which the Consultants shall be required to prepare the final copy, incorporating any amendments arising from such discussions.

Copies of reports required:

Report	Croatian	English (plus USB)
Report on the Review of Existing Damage Assessment Reports	3	2
Structural Damage Assessment Report	3	2
Options Review and Analysis	3	2

c) Original of the drawings that shall be submitted to the Client are not included in the above number of copies.

d) Those of the documents and reports not mentioned above but either specified or implied in the contract related to the Design shall be submitted in 5 copies in Croatian and English languages each.

In relation to the ongoing stages of the Consultants Services, the submission requirements given above show the type of documentation that will be required by the Client during the performance of the Services. However, the Consultant shall allow in its fee for the submission of all reports, drawings, documents, etc. specifically requested in these Terms of Reference. The Client may however vary such requirements during the course of the Services to be performed.

Should additional copies be required over to those stated above or specified in these Terms of Reference, these shall be supplied by the Consultants at the cost of reproduction of such documents, reports or drawing to the Client.

Upon the completion of Works and Supply Procurement, the Consultants shall submit all the original copies of correspondences, documents, test results and drawings relating to the services and Works, to the Client together with indices in acceptable files and forms by the Client and as archived. The Consultants shall keep the copies of the documents.

The Consultant will provide offices including facilities and all necessary work equipment for own experts and staff. MoPPCSA will also provide support in obtaining data and supporting materials from other Ministries.

The Consultant is expected to utilize their existing resources to cover any accommodation for the Consultants' staff; Vehicles, drivers, fuel and vehicle maintenance; Unskilled labour needed as helpers for surveys and quality control.

VI. TEAM COMPOSITION, MINIMUM QUALIFICATION AND EXPERIENCES

Consultant Firms can participate in the bidding process individually or in an association among themselves as either a Joint Venture, or Lead & sub consultant form. If the formation of an association) is proposed, the rationale for, and benefits to the assignment of, the arrangement should be explained.

To qualify for award of the consultancy services, the interested consultant firm shall meet the following minimum qualifications and needs to be prepared to provide information proving this:

(i) The Consultants should be in the consulting business for not less than the last 7 years prior to the deadline for submission of interests

(ii) The Consultants should have similar structural assessment experience or structural design experience in retrofitting, prior to the deadline for submission of interests, in Croatia, EU, or elsewhere where relevant codes were followed.

(iii) Experience in post-earthquake damage assessments is considered an asset.

(iv) The Consultants should demonstrate sound administrative and financial capacity

administrative capacity implies at least 8 available staff/experts (permanent employees or subcontracted experts) for contract implementation and financial capacity implies minimum financial annual turnover during the last two (2) years (2020 and 2021) of the Consultant of at least 1.5 million HRK or equivalent per year.

(v) The Consultants should demonstrate availability of the key experts for the performance of the services described in the TOR.

Joint Venture or Association requirements:

If the Consultant is proposing an association (joint venture or Lead & Sub-consultant), outline proposed management coordination of the arrangement, including the role of each firm. Associations expressing interest should clearly indicate the nature of the association, i.e. joint venture or sub-consultant.

If the Consultant is a Joint Venture or an Association. Joint Venture Partners shall be jointly and severally responsible for completion of the services. It is envisaged that the consultant teams will be made up as set out below considering the following (positions, expertise and durations given are indicative and are subject to variation - consultants may propose alternative arrangements which, in their opinion, will provide services of an equivalent or better quality). The Consultant team will have professionals including specialists for: structural, MEP, fire safety, HVAC, solid and hazardous wastes, and drainage aspects of the facility designs, building physics specialist; as well as architects who will cater to the design aspects that provide for the functionality of the interior of the building to serve the purpose of various medical and administrative departments of the facility as well as the interior and exterior aesthetics. The Consultant shall indicate the allocation of key staff to oversee the various such regulatory functions of the assignment.

The **Project Team** Leader will ensure that there are structured, clear, and transparent lines of effective communications between all specialists and ensuring that all the applicable regulations are adhered to, such as, but not limited to, fire, health, hazardous materials, pandemic protocols,

and more. The **Project Team Leader** will be responsible for the integrity and coordination among all of a projects and designers, as well as leading and being responsible for the performance of all consultants under this TOR.

The staffing should comprise the following skills and qualifications, structured as required to fulfil the stated outputs and objectives.

Project Team Leader/ Architect - should have MSc degree in architecture and a minimum 12 years' experience. The Architect should have some experience on previous recovery/refurbish projects

Deputy Team Leader/ Structural Engineer - should have bachelor's degree in Civil Engineering and MSc in structural engineering, have minimum 12 years' experience, including at least 5 years as team leader or deputy on recovery/refurbish projects of a similar size and complexity as described recovery/refurbish in this TOR. International assignments and experience in recovery projects is necessary, proven communication skills and ability to work with Government counterparts and management, proven competency in participatory approach, direct skills and experience in at least one of the technical aspects of the services.

Assistant Structural Engineer - The Assistant Structural Engineer shall have a BSc in structural engineering and a minimum of 10 years' experience. The engineer should have some experience on previous recovery/refurbish projects.

Mechanical Engineer, HVAC Engineer - The Mechanical Engineer should have Degree in mechanical engineering, should have at least 10 years of professional engineering experience in previous recovery/refurbish projects of a similar size and complexity as described in this TOR, international assignments will be considered as advantage.

Certified Court Expert in Civil Engineering - The Certified Court Expert should have MSc degree in structural engineering, should have at least 15 years of professional engineering experience, international assignments will be considered as advantage.

VII. OTHER REPORTS

The Consultant will prepare the following reports and distribute them in the number of copies indicated below, to MoPPCSA, MOH and the FMHC project related staff. The format and content of each report is to be acceptable to the Client. For each report submitted an identical electronic copy will be provided. Electronic copies will be in the format used in their preparation with all links, formulas, and fields active. For all reports an executive summary will be included.

a) Inception Report - The Consultant shall, within one month of Commencement of Services, submit an Inception Report in digital form and in hard copy (5 copies in Croatian, 5 copies in English) to MoPPCSA) setting out the parameters of all the components of the consulting services including the main civil works contract, the program of services. The Report shall also give the progress of the work to-date and a schedule of certified payments, if any. The

Report should identify any major issues and problems likely to be encountered vis-a-vis TORs. The report should also review the needs of recruiting other services as required.

b) Progress Reports - The consultant shall, subsequent to the Inception Report, submit monthly progress reports in digital form and in hard copy (5 copies in Croatian, 5 copies in English) on the 15th of the month following the reporting month, reflecting the progress of the work during the reporting month - the Executive Summary of these reports consisting of: (i) one or two pages outlining the position for the complete Project together with (ii) the single page contract report, all should be submitted electronically to the MoPPCSA. The progress reports shall include the following, but not limited to the following:

(i) **General**:

- A work program for the whole Project showing scheduled against actual progress.
- A summary of the progress made.
- Risks/Issues impeding progress and possible solutions.

(ii) **Compliance on Environmental and Social Aspects / Management Plan**

- Describes the work that the Engineer's social and environmental specialists have undertaken, the issues (including any Contractor's Environment, Social, Health and Safety (ESHS) noncompliance) identified and the actions taken to address the issues.
- Status of environmental and social mitigation and monitoring.
- Detail any adverse impacts and the remedial measures being taken.

VIII. INPUT DOCUMENTS AND SUPPORT TO BE PROVIDED BY THE CLIENT

To the greatest extent possible, the Consultant will utilize existing resources and documentation when preparing their outputs from the structural damage assessment, options review, and cost assessment. The Consultant may find that the Client can provide the "as built" drawings of the targeted buildings but should assume in developing their proposals that "as built" drawings will not be available. The Client will make every effort to find drawings for the three buildings within the scope of this assignment, but the default assumption is that they will not be available to assist the Consultant in developing their proposal and undertaking the assignment.

The Client shall, where possible, assist the Consultants in obtaining approvals, permissions from State Authorities in respect of the Services to be performed.

The Consultants shall return to the Client all documents if any received from the Client following the completion of the Services to be performed.

INPUT DOCUMENTS PROVIDED BY THE CLIENT:

The Client shall make the following documentation available to the Consultant:

(i) Layout sketch of the Fran Mihaljević Hospital Complex
(ii) Existing technical documentations of targeted 11 buildings

The Client shall appoint his contact persons who will be available for contact by the Consultant at the initial meeting.

Annex 1

Layout Sketch of the Fran Mihaljević Hospital Complex

Building no. Description

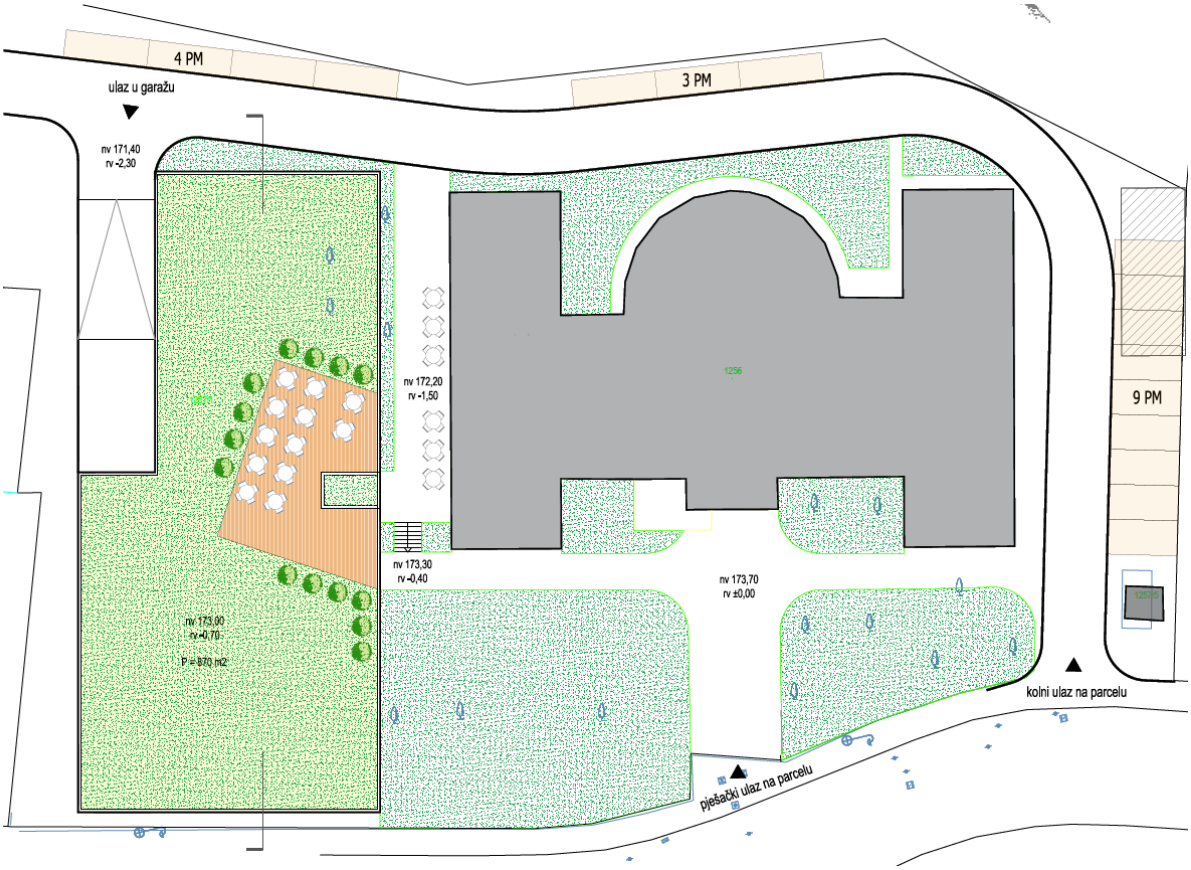
1 Directorate, Main children exam room, Main admission building, architect Drago Ibler

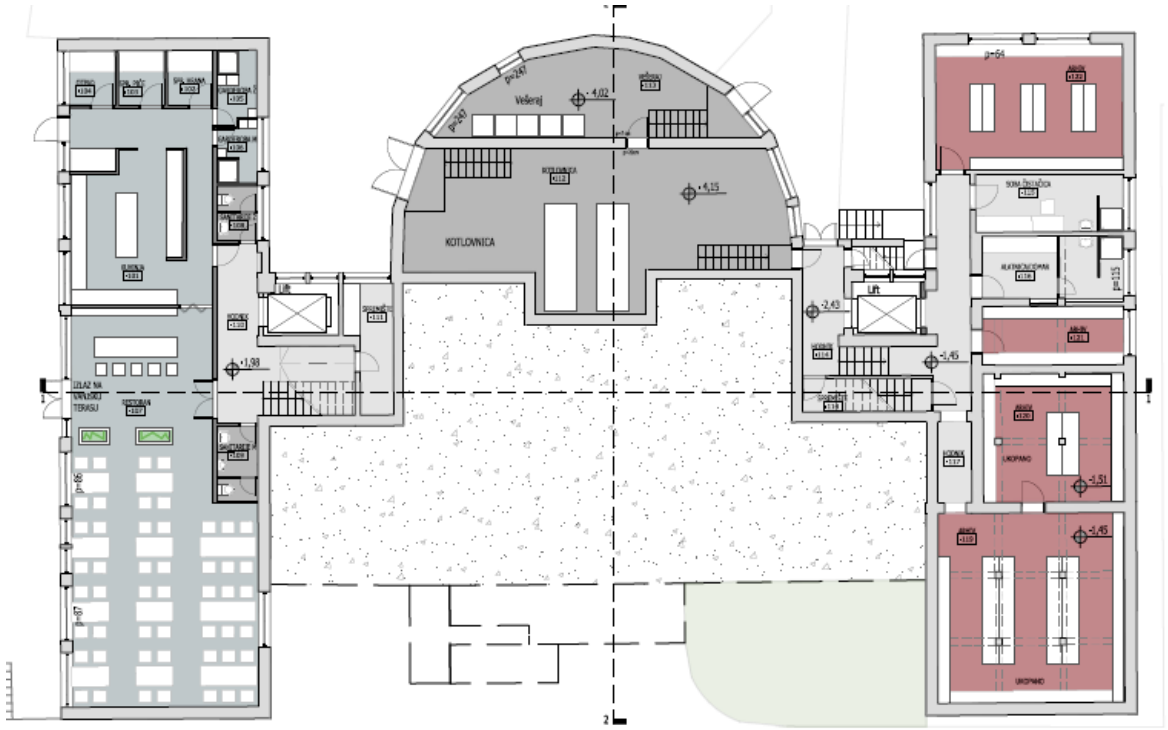
2 Kitchen

3	Doctor’s lounge
4	Lecture room
5	Radiology
6	Pharmacy, Ultrasound, CT
7	Intensive care unit
8	Sterilization
9	Oxygen supply
10	Waste disposal
11	Auxiliary buildings
12	Service tunnels, Used for utilities.

Annex 2

Layout and section of the CPHI-Nazorova

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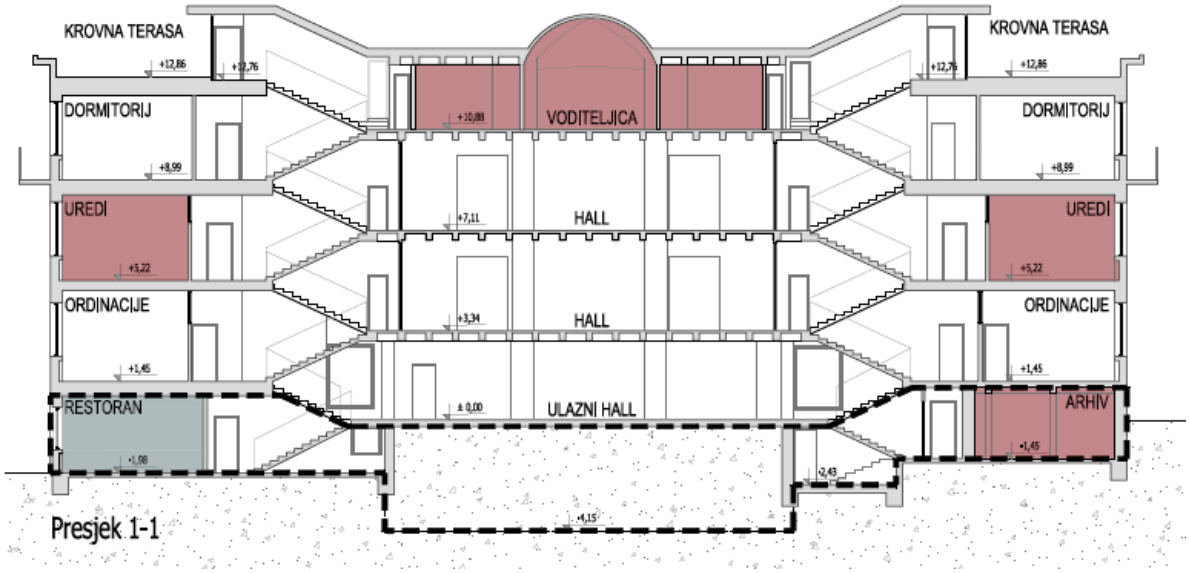
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UREDI
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VODITELJICA
+10,88
HALL
+7,11
HALL
+3,34
ULAZNI HALL
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-2,43
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KROVNA TERASA
+12,86
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DORMITORIJ
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ARHIV
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