

**CONSTRUCTION OF THE BUILDING OF THE RESEARCH AND DEVELOPMENT
INSTITUTE FOR INFORMATION TECHNOLOGY OF BIOSYSTEMS (BIOSENSE) IN
NOVI SAD, SERBIA
(PROCUREMENT NO. IOP/43-2020/RD)**

Clarification no. 5

Issued on June 22, 2020

Regarding the list of questions that the Employer, Public Investment Management Office Belgrade, No. 11 Nemanjina street, have received from the potential bidders, concerning the procurement procedure: Construction of the building of the Research and Development Institute for Information Technology of Biosystems (BioSense) in Novi Sad, Serbia no. IOP/43-2020/RD, we give you the following answers:

1. Facade Substructure on 3rd and 4th Floor and Steel Attica - 135-1...135-5

Question 1.1: Please, provide us DWG of frame for the facade structure in axis 08, which is missing from the design DWGs.

Answer 1.1: All available DWGs are attached to Clarification no. 4.

Question 1.2: Is the fire resistance of these elements 60 minutes, as defined in the Main design of Fire Protection (table 3) and part "Architectural-construction measures of Fire Protection" (page 18), which is related to facade walls?

Answer 1.2: Yes, it is 60 minutes.

Question 1.3: Please, define the category of corrosion (C1 to C5) according to SRPS EN ISO 12944. Category of durability is probably H (high). Only after that the bidder can propose the system of the anti-corrosion protection (possibly the system of anti-corrosion protection with fire protection, if it necessary) in accordance with above mentioned standard, as it stated in item 7 of General technical conditions for the production and erection of steel structure.

Answer 1.3:

C3 - medium atmospheric corrosivity:

inside: high humidity, mild air pollution;

outside: urban environment with continental climate or coastal environment with low salinity.

2. Steel Staircase – 136-1...136-6

Question 2.1: DWGs 136-1 and 136-2 – Is the design, defined fire resistance of the concerned staircases on the roof? If it is, how much is it?

Answer 2.1: Doesn't need fire protection.

Question 2.2: DWGs 136-3...136-6 – Is the fire resistance of these staircases 60 minutes, as defined in the Main design of Fire Protection (table 3) for the structure of evacuation routes or they are outside of them, so that they do not need fire protection?

Answer 2.2: Doesn't need fire protection.

Question 2.3: Please, define the category of corrosion (C1 to C5) according to SRPS EN ISO 12944. Category of durability is probably H (high). Only after that the bidder can propose the system of the anti-corrosion protection (possibly the system of anti-corrosion protection with fire protection, if it necessary) in accordance with above mentioned standard, as it stated in item 7 of General technical conditions for the production and erection of steel structure.

Answer 2.3:

C3 - medium atmospheric corrosivity:

inside: high humidity, mild air pollution;

outside: urban environment with continental climate or coastal environment with low salinity.

3. Segmentation Door and Substructure for the Amphitheatre Door – 137-1...137-4

Question 3.1: What is the fire resistance of these structure elements, since it is not defined in design documentation for this type of structure?

Answer 3.1: Substructure for the Amphitheatre Door - doesn't need fire protection.
Sectional lift garage doors on the ground floor do not need fire protection.

Question 3.2: Please, define the category of corrosion (C1 to C5) according to SRPS EN ISO 12944. Category of durability is probably H (high). Only after that the bidder can propose the system of the anti-corrosion protection (possibly the system of anti-corrosion protection with

fire protection, if it necessary) in accordance with above mentioned standard, as it stated in item 7 of General technical conditions for the production and erection of steel structure.

Answer 3.2:

C3 - medium atmospheric corrosivity:

inside: high humidity, mild air pollution;

outside: urban environment with continental climate or coastal environment with low salinity

Category of durability – very high (VH) more then 25 years.

4. Plateau on the Roof, Platforms in Installation Channels, Annex of the Roof House – 138-1 – 138-8

Question 4.1: What is the fire resistance of these structure elements, since it is not defined in design documentation for this type of structure?

Answer 4.1: The steel elements of the plateau structure on the Roof II – „impassable“ roof (4th level) – doesn't need fire protection.

The roof house leaning on the concrete core of the staircase, whose walls are made of thermopanel (fire resistance = 60min)... on a steel substructure with coating to provide:

For columns - 90min;

For other elements of structure - 60 minute.

Platforms in Installation Channels... - doesn't need fire protection.

Question 4.2: Please, define the category of corrosion (C1 to C5) according to SRPS EN ISO 12944. Category of durability is probably H (high). Only after that the bidder can propose the system of the anti-corrosion protection (possibly the system of anti-corrosion protection with fire protection, if it necessary) in accordance with above mentioned standard, as it stated in item 7 of General technical conditions for the production and erection of steel structure.

Answer 4.2:

C3 - medium atmospheric corrosivity:

inside: high humidity, mild air pollution;

outside: urban environment with continental climate or coastal environment with low salinity.

Category of durability - very high (VH) more then 25 years.

5. Structure of the Amphitheatre – 139-1...139-47

Question 5.1: Please define fire resistance in minutes of other elements, except for structure of floors and columns, which are not defined in the Main project of Fire Protection (table 3) and part "Architectural-construction measures of Fire Protection".

Answer 5.1: The all steel elements of the Amphitheatre structure must be protected with a fireproof coating in order to ensure a fire resistance of 90 minutes.

Question 5.2: In the part of the Main design of Fire Protection "Architectural-construction measures of Fire Protection" (page 19), was written: "In the part below the amphitheatre, the floor structure is made of steel profiles, which must be coated with a fireproof coating in order to provide a 60 minute of fire resistance and fire reresistant plates, in order to provide the required reresistance of 60 minutes." Does this mean, that the structure of the floor of the amphitheatre should be protected from fire 120 minutes?

Answer 5.2: No, just OSB plates under the floor layers must be fireproof, according to the European classification (EN 13501-1), it represents class B-s1, d0.

Question 5.3: Please, define the category of corrosion (C1 to C5) according to SRPS EN ISO 12944. Category of durability is probably H (high). Only after that the bidder can propose the system of the anti-corrosion protection (possibly the system of anti-corrosion protection with fire protection, if it necessary) in accordance with above mentioned standard, as it stated in item 7 of General technical conditions for the production and erection of steel structure.

Answer 5.3:

C3 - medium atmospheric corrosivity:

inside: high humidity, mild air pollution;

outside: urban environment with continental climate or coastal environment with low salinity.

6. BoQ

Question 6.1: In BoQ part №20. „Painting Works“, item 15. „Fire protection of steel structures“, please split total surface into resistance of 30, 60 and 90 minutes, in order to define real unit price for these position. Also, please define the type of color that will be applied on fire protection coating, polyurethane or epoksydney, and RAL, since these parameters affect to the unit price.

Answer 6.1:

For columns - 90min

For other elements of structure - 60 minutes

EXCEPT: the above-mentioned substructures which do not require fire protection and main steel Amphitheatre structure which is requires a fire resistance of 90 minutes for all structural elements.

(This does not apply to structural elements lined with fireproof materials (e.g. when they are lined with assembly of drywall which has a certificate for 90 minutes.)

Likewise, if the cladding material is wood that has no protection, the steel must have a fireproof coating.

Question 6.2: In BoQ part №20. „Painting Works“, item 16. „Painting visible parts of steel structure“, please define the type of color that will be applied on fire protection coating, polyurethane or epoksydney, and RAL, since these parameters affect to the unit price.

Answer 6.2: In section 1.1 Architecture, on page 32, table “G. Paints and final processing of materials” states: Visible steel structural elements - poles, clamps, connecting plates... RAL 9010. Color should be matte and therefore choose the appropriate protective coating that has the required fire resistance.

Question 7:

In tender documentation, 2.3 qualification criteria, 1. Experience, point b — Particular experience, the tenderer shall meet minimum following criteria:

1) In the period from 01.01.2015. to bid submission date, completed works up to the total functionality of object, in construction and/or extension on minimum 3 (three) objects of public purpose (hospitals, health centres, nursing homes, educational and research facilities, indoor and outdoor sports and recreational facilities, cultural facilities, traffic terminals, post offices and other facilities) involving a gross developed building area of more than 7.000 m² per object.

Question:

Regarding the request for minimum three objects (stated above), would it be acceptable to submit two objects with gross floor area of more than 7.000 m² each, while the third one to be replaced with 2 smaller objects, with cumulative gross floor area of more than 7.000 m²?

Please be noted that these objects meet all other criteria stated above.

Answer 7:

Qualification Criteria under point 1. Experience, b – Particular sub-point 1) requires minimum 3 (three) objects of public purpose (hospitals, health centres, nursing homes, educational and research facilities, indoor and outdoor sports and recreational facilities, cultural facilities, traffic terminals, post offices and other facilities) involving a gross developed building area of more than 7.000 m² per object. It is clear from the qualification requirement in question that the minimum gross developed building area of each relevant object is more than 7.000 m² and that the minimum required number of such objects is 3 (three), so in that sense, two objects with gross floor area of more than 7.000 m² each, with two smaller objects, with cumulative gross floor area of more than 7.000 m², would not be acceptable as a relevant proof for Qualification Criteria under point 1. Experience, b – Particular sub-point 1).


Question 8:

For reason of better preparation of the offer we kindly ask you to provide us with single-pole schemes, both energy and automation.

Answer 8:

Attached to this clarification are single-pole schemes, both energy and automation.

Public Procurement Committee



Dragana Nenadić