The Goulandris Natural History Museum

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Kifissia 17/09/2021

Protocol No.: 830/17.09.2021

ANNOUNCEMENT ISSUE OF AN OPEN TENDER

Program: "Central Greece 2014 – 2020" with code ΣΤΕΡ1-0019461"

"Supplied Item: Supply, installation, operation and users training of an (1) Ultra-high performance Liquid Chromatography system suitable for bioavailability and pharmacokinetic studies and *–omics study*, compatible with mass spectrometry detector for the Bioanalytical laboratory of GNHM"

ANNOUNCEMENT OF OPEN INTERNATIONAL TENDER

FOR EQUIPMENT SUPPLY

Evaluation Criterion	**:**	**More advantageous bid**
Competition Venue	**:**	**Goulandris Natural History Museum**
Competition Time	**:**	**17/09/2021**
Expected cost	**:**	**Twenty thousand euros (€ 20.000) {including VAT}**

DEFINITIONS AND GENERAL PRINCIPLES

ARTICLE 1. CONTRACTING AUTHORITY

The Contracting Authority is the Goulandris Natural History Museum (GNHM), located in 13 Levidou, Kifissia, 14562, TEL: +302108015870 (internal 517) which announces this Competition based on the meeting of the Board of Directors No. 800/07.09.2021_Article 2^{o}.

ARTICLE 2. PROCLAMATION OBJECT

Object of the present proclamation is: "Supply, installation, operation and users training of an (1) Ultra-high performance Liquid Chromatography system suitable for bioavailability and pharmacokinetic studies and *–omics* study, compatible with mass spectrometer for the Bioanalytical laboratory of GNHM", in the context of the implementation of the project included in the Program "Central Greece 2014 – 2020" with code ΣΤΕΡ1-0019461" and entitled "Utilization of plants of the genus Sideritis with the aim of developing food supplement (SIDNEU)".

The Board of the Goulandris Natural History Museum located in 13 Levidou, Kifissia, 14562, TEL: +302108015870, and hereafter abbreviated as "GNHM or Contracting Authority", announces an Open Tender Competition with sealed bids and with evaluation of the Financial and Technical Bids, expenditure budget 20,000.00 Euros (including VAT) with the criterion of awarding the most advantageous bid. The Competition Object includes;

• the selection of a supplier who will supply an (1) Ultra-high performance Liquid Chromatography system suitable for bioavailability and pharmacokinetic studies and *–omics* studies, compatible with mass spectrometry detector for the Bioanalytical laboratory of GNHM.

• The transfer, placement and installation of the specific analytical instrument and its accessories in full operation in the appropriate areas of the Bioanalytical Laboratory of GNHM.

• The provision of training services for the laboratory staff both in the instrument use and in the periodic maintenance and restoration of micro-damages during the good operation guarantee of the offered analytical instruments.

• The provision of a good operation warranty valid for 12 months after its final acceptance.

• The total budget is 20,000.00 Euros including VAT.

Responsible Officer for providing information:

Dr Ioanna Dagla who provides relevant information (TEL: +302108015870 ext. 519, FAX: +302108080674, e-mail: ioanna.v.dagla@gmail.com).

Project Monitoring and Acceptance Committee:

A group of persons, appointed by the Contracting Authority, who is authorized to represent the Contracting Authority in the execution of the obligations, rights and/or powers that belong to it under the Contract and which is responsible for supervising the execution of the Contract by the Contractor and the receipt of the deliverables of the Project.

END OF TENDER SUBMISSION - TIME AND PLACE OF TENDER

1. The interested parties will submit their Bid, not dependent on a term, condition, or reservation, to the Contracting Authority, 13 Levidou, Kifissia, 14562, no later than 29.10.2021 until 12:00 p.m. (end date and time of competition). Also, the bid can be sent to the Contracting Authority in any way and is received with a receipt, as long as it has reached the Contracting Authority no later than the previous date of the above Tender.

2. In cases where the submitted or sent by post tenders do not comply with the provisions of the preceding paragraphs, they shall not be taken into account.

DEADLINE TO RECEIVE OFFERS

The deadline for submission of bids is 29.10.2021.

METHOD OF PAYMENT

Payment terms shall be as follows: the first payment, corresponding to 50% of the budgeted cost, shall be effected upon order placement, and the remaining 50% of the budgeted cost shall be paid upon the final delivery/acceptance of the instrument. All payments shall take place by producing all the legal supporting documentation provided, as well as any other document as may be requested by the competent authorities performing auditing and payment services. The acquisition of such supporting documents shall fully burden the Contractor.

Ultra-high performance liquid chromatography (UHPLC) system, Operation control, Data Collection and Processing system.

The offered UHPLC system should have the flexibility of high-pressure quaternary solvent blending, a vacuum solvent degasser, a column thermostat and an automatic sampler with the following specifications:

1. Dual pump with the ability to operate in gradient elution mode of two solvents with mixing at high pressure and with a capacity of at least four total solvents. Suitable for pressures up to at least 1034 bar (15.000psi).
   - Flow range from ≤0.010 mL/min to at least 2 ml/min
   - Flow accuracy: ≤± 1%
   - Flow precision: ≤ 0.075% RSD
   - Maximum operating pressure at least 15,000 psi
   - Pulsation: ≤1%
   - Flow-path made of biocompatible materials.
   - To have the ability to present the operating parameters and display error and warning messages to predict faults through software and a self-diagnosis system of faults and fluid leaks.
   - A system of lights to provide information about its operating status.
   - Be accompanied by a suitable solvent tray, 4 solvent bottles and a built-in vacuum degasser that can be used with at least 4 solvents.
2. To have a column thermostat with the following specifications:
   - Accommodation of at least 2 columns 150 mm long with filter or guard column
   - Range of thermostat: from ≥ 20 °C to at least 90 °C (Accuracy <± 0.5 °C)
   - To have the ability of self-diagnose faults and leaks, protection against overheating, etc.
   - To have a column identification system suitable for all types of columns of all companies. Recording of important parameters of columns (such as column type, serial number, number of injections, etc.)
3. To have an automatic sampler with the following specifications:
   - Sampling from at least 96 microtiter plates and 48 position 2.00-mL vial plates
   - Variable injection volume 0.1 to ≥10 µl
   - Accuracy of injection volume: ≤±0.2 µl and repeatability of injection volume ≤0.25% RSD.

- Minimum required volume for sampling: ≤3μl
- Injection linearity: ≥0.999
- To have an injection cycle time <30 sec (depending on the separation conditions)
- To have a thermostatic system for samples at temperatures of 4 – 40 °C.
- Be suitable for photosensitive samples.
- The control of all operating parameters of the automatic sampler should be done by the computer of the system. The electrical connection must be 220V / 50Hz

4. Equipped with a dual wavelength UV detector or preferably with an photodiode array detector (PDA) with automatic 2D and 3D operation in the software.
5. Operation in accordance with the rules of Good Laboratory Practice (GLP) and 220V / 50Hz electrical connection.
6. Suitable software (latest version) that has the ability to operate on a network and the ability to create administrators and / or ordinary users.
7. The system should be seamlessly interfaced with the existing mass spectrometers of the Laboratory and be fully controlled by the systems' software.
8. The device must be accompanied by a full warranty (in operation and spare parts) lasting for one year after final receipt and acceptance of the system.