

**Finland-Jyväskylä: Mass spectrometer**  
**OJ S 40/2020 26/02/2020**  
**Contract notice**  
**Supplies**

**Legal Basis:**

Directive 2014/24/EU

**Section I: Contracting authority**

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**I.1. Name and addresses**

Official name: University of Jyväskylä  
National registration number: 0245894-7  
Postal address: Seminaarinkatu 15  
Town: Jyväskylä  
NUTS code: FI193 Keski-Suomi  
Postal code: 40014  
Country: Finland  
E-mail: [kirjaamo@jyu.fi](mailto:kirjaamo@jyu.fi)  
Telephone: +358 142601211  
**Internet address(es):**  
Main address: <http://www.jyu.fi>

**I.3. Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://hanki.tarjouspalvelu.fi/hanki?id=257235&tpk=4e1d7560-c3be-4817-925f-3b4f96fb1e24>  
Additional information can be obtained from the abovementioned address  
Tenders or requests to participate must be submitted electronically via: <https://hanki.tarjouspalvelu.fi/hanki?id=257235&tpk=4e1d7560-c3be-4817-925f-3b4f96fb1e24>

**I.4. Type of the contracting authority**

Other type: University

**I.5. Main activity**

Education

**Section II: Object**

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**II.1. Scope of the procurement****II.1.1. Title**

Compound-specific Stable Isotope Ratio Mass Spectrometer (CS-SIRMS) with Chromatographic Peripheral Inlet Systems — Gas Chromatograph Mass Spectrometer (GC-MS) and Liquid Chromatograph (LC)  
Reference number: 707/02.08.00.00/2019

**II.1.2. Main CPV code**

38433100 Mass spectrometer

**II.1.3.**

## **Type of contract**

Supplies

### **II.1.4. Short description**

University of Jyväskylä (JYU) is planning the purchase of a compound-specific stable isotope ratio mass spectrometer (CS-SIRMS) with chromatographic peripheral inlet systems — gas chromatograph mass spectrometer (GC-MS) and liquid chromatograph (LC).

The procurement includes installation and training 1-2 months after the installation.

Contracting authority (JYU) may suspend the procurement procedure if the tenders exceed the budget available for the procurement.

Prior reference of supplying CS-SIRMS equipment is required.

### **II.1.5. Estimated total value**

Value excluding VAT: 350 000,00 EUR

### **II.1.6. Information about lots**

This contract is divided into lots: no

## **II.2. Description**

### **II.2.2. Additional CPV code(s)**

38432200 Chromatographs, 38432210 Gas chromatographs

### **II.2.3. Place of performance**

NUTS code: FI193 Keski-Suomi

Main site or place of performance: University of Jyväskylä, Department of Biological and Environmental Science.

### **II.2.4. Description of the procurement**

University of Jyväskylä (JYU) is planning the purchase of a compound-specific stable isotope ratio mass spectrometer (CS-SIRMS) with chromatographic peripheral inlet systems — gas chromatograph mass spectrometer (GC-MS) and liquid chromatograph (LC).

The procurement includes installation and training 1-2 months after the installation.

Contracting authority (JYU) may suspend the procurement procedure if the tenders exceed the budget available for the procurement. Prior reference of supplying CS-SIRMS equipment is required.

CS-SIRMS Specifications:

Continuous flow stable isotope ratio mass spectrometer compatible with a wide range of sample preparation and inlet systems (especially for GC and LC) suitable for detection of  $2\text{H}/1\text{H}$ ,  $13\text{C}/12\text{C}$ ,  $15\text{N}/14\text{N}$ ,  $18\text{O}/16\text{O}$  and  $34\text{S}/32\text{S}$ .

Adequate sensitivity for compound specific SIRMS determinations.

Computer, monitor and software for the operation of the instrument with multiple data processing licences. Internet connection to the software to allow remote diagnosis of problems.

GC-MS Specifications:

— gas chromatograph quadrupole mass spectrometer (GC-MS) with electron ionization (EI) including flame ionization detector (FID) for quantitative analysis and system monitoring,

— furnace link system for compound-specific isotope analysis (CSIA) enabling combined GC-MS-SIRMS analysis,

— possibility to change the GC-column without venting MS,

— 3 separate GC columns for amino acids, fatty acids and sterols,

— tender includes at least 1 extensive mass library for compound identification that includes following compounds: amino acids, fatty acids and sterols,

— autosampler (multi-position, minimum 50 positions) for automated sample feed.

LC Specifications:

— liquid chromatograph (LC) equipped with autosampler (multi-position, minimum 30 positions, with sample temperature control) and column oven,

— separate detector (primarily refractive index (RI) detector for carbohydrates) for quantitative analysis and system monitoring,

— analytical and guard column for carbohydrate LC-SIRMS analysis,

— linking unit enabling compound specific isotope analysis of samples such as carbohydrates, amino acids, alcohols, organic acids and peptides,

— high conversion of organic carbon to CO<sub>2</sub> through chemical oxidation in eluent line.

#### **II.2.5. Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6. Estimated value**

#### **II.2.7. Duration of the contract, framework agreement or dynamic purchasing system**

Start: 01/05/2020

This contract is subject to renewal: no

#### **II.2.10. Information about variants**

Variants will be accepted: no

#### **II.2.11. Information about options**

Options: yes

Description of options:

Service and support:

Tenderer indicates service contract prices for 3 years and type of support and the nearest location. In system malfunction cases service engineers are reachable by telephone or through support system in normal office hours and can do remote diagnosis for the system.

Possibility for future upgrades and expansions: tenderer presents available options and upgrades for the device that extend its functionality.

#### **II.2.13. Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds:  
no

#### **II.2.14. Additional information**

### **Section III: Legal, economic, financial and technical information**

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#### **III.1. Conditions for participation**

##### **III.1.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions:

According to tender documents.

##### **III.1.2. Economic and financial standing**

Selection criteria as stated in the procurement documents

##### **III.1.3.**

## **Technical and professional ability**

Selection criteria as stated in the procurement documents

### **III.2. Conditions related to the contract**

#### **III.2.2. Contract performance conditions**

Contracting authority (JYU) may suspend the procurement procedure if the tenders exceed the budget available for the procurement.

## **Section IV: Procedure**

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### **IV.1. Description**

#### **IV.1.1. Type of procedure**

Open procedure

#### **IV.1.3. Information about a framework agreement or a dynamic purchasing system**

#### **IV.1.8. Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: yes

### **IV.2. Administrative information**

#### **IV.2.2. Time limit for receipt of tenders or requests to participate**

Date: 08/04/2020 Local time: 16:00

#### **IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates**

#### **IV.2.4. Languages in which tenders or requests to participate may be submitted**

English

#### **IV.2.6. Minimum time frame during which the tenderer must maintain the tender**

Duration in months: 6 (from the date stated for receipt of tender)

#### **IV.2.7. Conditions for opening of tenders**

Date: 09/04/2020 Local time: 12:00

## **Section VI: Complementary information**

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### **VI.1. Information about recurrence**

This is a recurrent procurement: no

### **VI.2. Information about electronic workflows**

Electronic invoicing will be accepted

Electronic payment will be used

### **VI.3. Additional information**

### **VI.4. Procedures for review**

#### **VI.4.1. Review body**

Official name: Markkinaoikeus

Postal address: Radanraketajantie 5

Town: Helsinki

Postal code: 00520

Country: Finland

E-mail: [markkinaoikeus@oikeus.fi](mailto:markkinaoikeus@oikeus.fi)

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

**VI.5. Date of dispatch of this notice**

21/02/2020