

**Finland-Jyväskylä: Laboratory, optical and precision equipments (excl. glasses)**

OJ S 233/2019 03/12/2019

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, yliopisto  
Town: Jyväskylän  
NUTS code: FI193 Keski-Suomi  
Postal code: 40014  
Country: Finland  
E-mail: [kirjaamo@jyu.fi](mailto:kirjaamo@jyu.fi)  
Telephone: +358 142601211  
Fax: +358 142601021  
**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=264085&tpk=985da731-d792-4c60-8229-dc0d4d0fe4a4>  
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=264085&tpk=985da731-d792-4c60-8229-dc0d4d0fe4a4>

**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**

Cryogen-free Dilution Refrigerator  
Reference number: 1011/02.08.00.00/2019

**II.1.2. Main CPV code**

38000000 Laboratory, optical and precision equipments (excl. glasses)

**II.1.3. Type of contract**

Supplies

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

Fully operational dry (no liquid helium needed) dilution refrigerator (DR) with gas handling system and computer control. Turn-the-key delivery: All equipment needed to run the system as well as all needed supporting structures, floor mounts, etc. delivered with the system. Required helium-mixture should also be included. Base temperature must be below 10 mK with all factory installed wiring and the cooling power at 20 mK should be 14  $\mu$ W or higher. Contracting authority (JYU) may suspend the procurement procedure if the tenders exceed the budget available for the procurement. Prior references of supplying comparable systems are required.

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

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

This contract is divided into lots: no

### **II.2. Description**

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

NUTS code: FI193 Keski-Suomi

Main site or place of performance: University of Jyväskylä, Nanoscience Center/Department of Physics.

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

Fully operational dry (no liquid helium needed) dilution refrigerator with gas handling system and computer control. Turn-the-key delivery: all equipment needed to run the system as well as all needed supporting structures, floor mounts, etc. delivered with the system. Installation and testing of the system at installation location should be included. Required helium-mixture should also be included. There should be automated (computer controlled) cool down and warm up procedures with possibility to switch system to manual control. Temperature PID control below 100 mK must be able to maintain less than 1 mK accuracy of the temperature. Base temperature must be below 10 mK with all factory installed wiring and the cooling power at 20 mK should be 14  $\mu$ W or higher, at 100 mK 400  $\mu$ W or higher and at 4,2 K 1,8 W or higher. Cool down time should not exceed 24 hours. Wiring to be installed includes 24 twisted pair wires, 12 thermocoax wires, 4 semi-rigid cables up to 18 GHz and 2 semi-rigid cables up to 40 GHz. In addition to electrical wiring, there must be optical free-space access to the sample space both horizontally and vertically. Special care will be paid to the vibration dampening solutions of the tenders. In addition to the normal requirement to separate the pulsetube vibrations from the sample space, there should be a possibility to run the system for an extended period (at least 60 minutes) without the pulsetube running. Contracting authority (JYU) may suspend the procurement procedure if the tenders exceed the budget available for the procurement. Prior references of supplying comparable systems are required.

#### **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**

Duration in months: 48

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 extra 5 years and type of support. Possibility for future upgrades and expansions: option to include an integrated superconducting, possibly vector, magnet at a later date.

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

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project: Horizon 2020 Grant Agreement number: 852428

#### **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: 06/01/2020 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: 07/01/2020 Local time: 10:00

## **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

**VI.3. Additional information**

**VI.4. Procedures for review**

**VI.4.1. Review body**

Official name: Markkinaoikeus

Postal address: Radanrakentajantie 5

Town: Helsinki

Postal code: 00520

Country: Finland

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

Telephone: +358 295643300

Fax: +358 295643314

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

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

28/11/2019