

Germany-Dresden: Laboratory, optical and precision equipments (excl. glasses)
OJ S 115/2023 16/06/2023
Contract award notice
Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Helmholtz-Zentrum Dresden-Rossendorf e.V.

Postal address: Bautzner Landstraße 400

Town: Dresden

NUTS code: DED21 Dresden, Kreisfreie Stadt

Postal code: 01328

Country: Germany

Contact person: Department of tender and procurement

E-mail: dm-vergabe@hzdr.de

Internet address(es):

Main address: www.hzdr.de

I.4. Type of the contracting authority

Other type: Nonacademic research center

I.5. Main activity

Other activity: Fundamental research

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Scanning quantum magnetometer

Reference number: EUOV2301

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

Delivery, installation, commissioning and acceptance of a scanning quantum magnetometer

II.1.6. Information about lots

This contract is divided into lots: no

II.1.7. Total value of the procurement

Value excluding VAT: 0,01 EUR

II.2. Description

II.2.2. Additional CPV code(s)

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

II.2.3. Place of performance

NUTS code: DED21 Dresden, Kreisfreie Stadt

Main site or place of performance: Helmholtz-Zentrum Dresden - Rossendorf e.V. FWI / Building 613/03 Bautzner Landstraße 400 01328 Dresden GERMANY

II.2.4. Description of the procurement

A scanning quantum magnetometer shall be acquired at the Institute of Ion Beam Physics and Materials Research (FWIQ) at HZDR. This instrument will be available for cutting-edge research in the fields of energy, health and matter, as well as serving as a test infrastructure for quantum sensor technology in Saxony. The device should be based on a single nitrogen-vacancy (NV) center in diamond mounted on a cantilever, enabling simultaneous acquisition of the sample's topography and its surface magnetic fields with nanoscale resolution. The device should operate at room temperature under ambient conditions and provide magnetic field sensitivity better than 10 uT per square root Hz with spatial resolution better than 100 nm. It should also have close-loop sample positioning and scanner. The system should be compatible with an optional source of magnetic field and optional sampler heater. The overall goal is to expand the spectrum of innovative instruments at HZDR and to intensify activities in the field of quantum technologies. Furthermore, the system should have an additional optical excitation/detection path to optionally extend the scanning quantum magnetometry for silicon vacancies in SiC. The following parameters shall be achieved: - Single NV center mounted on a cantilever as a magnetic field sensor providing sensitivity better than 10 uT/sqrt(Hz) - XYZ piezo closed-loop scanner with scanning range not smaller than 80 um x 80 um x 10 um and resolution better than 0.3 nm - Coarse sample positioning within range not smaller than 5 mm x 5 mm x 5 mm and resolution better than 2 um - Magnetic spatial resolution better than 100 nm - Green laser for excitation is provided - Single photon counting module is included - Microwave antenna with micropositioning or integration of scanning tip with microwaves - Microwave source and amplifier are provided - Software for DC magnetometry (updates included) - Delivery has to take place 20 weeks after placing the order. - Measurement scripting abilities

II.2.5. Award criteria

Quality criterion - Name: Performance / Weighting: 50,00

Price - Weighting: 50,00

II.2.11. Information about options

Options: no

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 IV: Procedure

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.2.1. Previous publication concerning this procedure

Notice number in the OJ S: [2023/S 070-212698](#)

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a prior information notice

Section V: Award of contract

Contract No: 1

Title:

Scanning quantum magnetometer

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

06/06/2023

V.2.2. Information about tenders

Number of tenders received: 2

Number of tenders received from SMEs: 2

Number of tenders received from tenderers from other EU Member States: 0

Number of tenders received from tenderers from non-EU Member States: 2

Number of tenders received by electronic means: 2

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: QNAMI AG

Postal address: hofackerstrasse 40B

Town: Muttenz

NUTS code: CH032 Basel-Landschaft

Postal code: 4132

Country: Switzerland

E-mail: contact@qnami.ch

Telephone: +41 612073740

Fax: +41 612073740

The contractor is an SME: yes

V.2.4. Information on value of the contract/lot

Initial estimated total value of the contract/lot: 0,01 EUR

Total value of the contract/lot: 0,01 EUR

V.2.5. Information about subcontracting

Section VI: Complementary information

VI.3. Additional information

The total value of the procurement stated under section II.1.7) and the total value of the contract/lot stated under section V.2.4) will not be published due to the keeping of trade and business secrets of the foreseen contractor. Therefore the fictive amount of 0,01 EUR has been filled in.

VI.4. Procedures for review

VI.4.1. Review body

Official name: 1. Vergabekammer des Freistaates Sachsen bei der Landesdirektion Sachsen

Postal address: PF 10 13 64

Town: Leipzig

Country: Germany

VI.4.4. Service from which information about the review procedure may be obtained

Official name: 1. Vergabekammer des Freistaates Sachsen bei der Landesdirektion Sachsen

Postal address: PF 10 13 64

Town: Leipzig

Country: Germany

VI.5. Date of dispatch of this notice

12/06/2023