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Award

Low Temperature STM

Universiteit Leiden

F15: Voluntary ex ante transparency notice
Notice identifier: 2019/S 000-000368
Procurement identifier (OCID): ocds-h6vhtk-003071-integration
Published 26 February 2019, 3:32pm

Section I: Contracting authority/entity

I.1) Name and addresses

Universiteit Leiden

Kolffpad 1

Leiden

2333 BN

Contact

Govert Schipperheijn

Email

inkoop@ufb.leidenuniv.nl

Telephone

+31 715273304

Country

Netherlands

NUTS code

NL - NETHERLANDS

National registration number

151539485

Internet address(es)

Main address

http://www.leidenuniv.nl

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Onderwijs en Onderzoek

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Low Temperature STM

II.1.2) Main CPV code

- 38514200 - Scanning probe microscopes
  - FG11 - For scientific purposes

II.1.3) Type of contract

Supplies

II.1.4) Short description

Development and delivery of a special Low-Temperature Scanning Tunneling Microscope.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: 329,260 EUR

II.2) Description

II.2.3) Place of performance

NUTS codes

- NL - NETHERLANDS

Main site or place of performance

Leiden.

II.2.4) Description of the procurement

Development and delivery of a low-temperature STM in 2 phases: design phase and production phase.

II.2.5) Award criteria

Price

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

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Negotiated without a prior call for competition

- The works, supplies or services can be provided only by a particular economic operator for the following reason:
    - absence of competition for technical reasons

Explanation:

The Leiden institute of physics (LION), part of the University Leiden, is announcing its intended decision to hand the development of a transfer system, vibration isolation system and scanning probe microscope (STM) inside an existing Leiden cryogenics dry dilution refrigerator equipped with a nuclear demagnetization stage and probe transfer system. The development will take place with close collaboration with the scientific personnel of the institute as it requires an update of existing research infrastructure that is in continuous use for fundamental scientific research.

General requirements on the solution that needs to be developed are:

— All developed systems must be compatible with, work with and fit within the existing dilution refrigerator.

— The STM needs to be transfered from room-temperature to the low-temperature stage while other STM's already inside the machine remain at operable conditions.

— The STM must be able to cleave samples at a temperature below 5 Kelvin and achieve atomic resolution spectroscopy on the freshly cleaved sample.

— Attenuation of vibration is needed in all 3 dimensions and should have at least 10dB at 10Hz.

— The power dissipation of the vibration isolation system should be below 10 Micro watts when in full operation.

— The fact that the developed solutions will need to be UHV compatible in the near future should be taken deeply in consideration.

— The functional and technical design of the solution should be fully disclosed to LION

during and after development.

During the spring and early summer 2017 LION approached several companies with the question if they where willing to participate in the development as described above. Amongst those companies where: Createc Germany; Bluefors, Finland; Baarle Wetenschappelijke Instrumentatie, the Netherlands; Leiden Cryogenics, the Netherlands; Oxford Instruments, United Kingdom; Omikron, Germany and Unisoku, Germany. Only one supplier was willing to engage in the development trajectory of the transfer system, vibration isolation system and scanning probe microscope under the conditions as stated above.

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

The procurement is covered by the Government Procurement Agreement: Yes

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Section V. Award of contract/concession

Contract No

1

Title

Low Temperature STM

A contract/lot is awarded: Yes

V.2) Award of contract/concession

V.2.1) Date of conclusion of the contract

27 February 2018

V.2.2) Information about tenders

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

V.2.3) Name and address of the contractor/concessionaire

BWI bv

Zwanenzijde 20

Leiden

2317 XC

Country

Netherlands

NUTS code

- NL - NETHERLANDS

National registration number

60721154

The contractor/concessionaire is an SME

Yes

V.2.4) Information on value of contract/lot/concession (excluding VAT)

Total value of the contract/lot/concession: 329,260 EUR

Section VI. Complementary information

VI.3) Additional information

This publication is done to indicate our intent to award the contract. Representations can be made within 20 days after publication of intent. If no representations are received, we will award the contract.

VI.4) Procedures for review

VI.4.1) Review body

Rechtbank Den Haag

Prins Clauslaan 60

's-Gravenhage

2595 AJ

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+31 883612011

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