

Portugal-Braga: Laboratory, optical and precision equipments (excl. glasses)

OJ S 114/2019 17/06/2019

Contract notice

Supplies

**Legal Basis:**

Directive 2014/24/EU

## Section I: Contracting authority

---

### I.1. Name and addresses

Official name: INL — International Iberian Nanotechnology Laboratory

National registration number: PT508633346

Postal address: Avenida Mestre José Veiga S/N

Town: Braga

NUTS code: PT112 Cávado

Postal code: 4715-330

Country: Portugal

Contact person: André Teixeira

E-mail: [andre.teixeira@inl.int](mailto:andre.teixeira@inl.int)

Telephone: +351 253140112

**Internet address(es):**

Main address: [www.inl.int](http://www.inl.int)

Address of the buyer profile: <https://in-tendhost.co.uk/inl/asp/Home>

### I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://in-tendhost.co.uk/inl/asp/ProjectManage/78>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://in-tendhost.co.uk/inl/asp/ProjectManage/78>

Tenders or requests to participate must be submitted to the abovementioned address

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

European institution/agency or international organisation

### I.5. Main activity

Other activity: Nanotechnology Research Laboratory

## Section II: Object

---

### II.1. Scope of the procurement

#### II.1.1. Title

Standard Specifications to Govern the Contracts for the Supply and Installation of Nanofabrication and Microscopy Equipment and the Upgrades to Existing Nanofabrication Systems for INL

#### 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**

The subject matter of this contract is the supply and installation of nanofabrication and microscopy equipment and the upgrade to existing INL nanofabrication systems listed below and detailed in Schedule V attached to these standard specifications (from now on referred to as 'Specifications'). The equipment and upgrades to existing equipment listed in Schedule V are the lots that the tender comprises. Tenderers may bid for one or more lots. The subject matter of the contract, in all cases, does not include so-called refurbished scientific instruments and equipment.

This tender is comprised of one lot, as follows:

2 b) Mask Aligner for 200 mm diameter wafers

This purchase is funded by Micro&NanoFabs@PT: Rede de Infraestruturas de Investigação de Micro e Nanofabricação em Portugal, code: NORTE-01-0145-FEDER-022090.

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

Value excluding VAT: 400 000,00 EUR

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

This contract is divided into lots: yes

Tenders may be submitted for all lots

## **II.2. Description**

### **II.2.1. Title**

Lot No 2b — Mask Aligner for 200 mm Diameter Wafers

Lot No: 2B

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

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

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

NUTS code: PT112 Cávado

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

General requirements:

This tender concerns the supply of a mask aligner to be used with 200 mm diameter wafers.

Technical requirements:

The new mask aligner should comply with the following requirements:

— the mask aligner should be a semi-automatic (wafers loaded by the operator) or fully automatic tool (wafers loaded and unloaded from a cassette),

— the mask aligner must be able to handle 200 mm diameter Si wafers with thicknesses of 750µm,

— the mask aligner should be able to write on the full surface of the si wafers,

— the mask aligner should be capable of performing exposures in several different modes including hard contact, soft contact, proximity (with adjustable distance between mask and wafer in 1µm steps) and vacuum contact,

— the mask aligner should be able to write features with dimensions down to 2µm (including lines, circles, ellipses, squares and rectangles) without shape distortions on the full wafer,

— the mask aligner should be capable of automatically aligning the mask blank with respect to the wafer using alignment marks defined in previous lithography and pattern transfer steps,

- the mask aligner should be capable of aligning a mask blank with respect to alignment marks in a wafer placed either on the top side or on the bottom side of the wafer. I.e., the tool should be capable of performing both top side alignment and bottom side alignment,
- the overlay accuracy between 2 layers exposed in the same tool should be equal or better than 1µm on the full wafer,
- the mask aligner should be capable of using mask blanks of 9 inch x 9 inch made of quartz or soda-lime glass,
- for compatibility with the masks currently available at INL, the mask aligner should be capable of handling mask blanks of 8 inch x 8 inch made of quartz or soda-lime, even if the exposure will not be made on the full wafer surface in this case,
- the mask aligner optics should be capable of resolving features down to 1µm,
- besides conventional ocular lens, the mask aligner should have a screen (ideally larger than 17 inch) displaying the images captured by the optics.

The system should be capable of capturing pictures.

#### **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**

Value excluding VAT: 400 000,00 EUR

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

Duration in months: 8

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: no

#### **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: This purchase is funded by Micro&NanoFabs@PT: Rede de Infraestruturas de Investigação de Micro e Nanofabricação em Portugal, code: NORTE-01-0145-FEDER-022090.

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

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

---

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

##### **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

### **Section IV: Procedure**

---

## **IV.1. Description**

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

Open procedure Accelerated procedure Justification:

Due to the duration of the project that fund this purchase, the expected delivery time of the equipment and also considering the fact that this tender is related to a lot which contract was not awarded.

### **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: no

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

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

Date: 30/06/2019 Local time: 17:00

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

Date: 15/07/2019 Local time: 17:00

## **Section VI: Complementary information**

---

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

This is a recurrent procurement: no

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

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

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

Official name: Director General of INL

Town: Braga

Country: Portugal

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

12/06/2019