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Tender

## **System for the Measurement of Multiple Semiconducting Qubits**

National Physical Laboratory

F02: Contract notice

Notice identifier: 2021/S 000-000074

Procurement identifier (OCID): ocids-h6vhtk-028790

Published 4 January 2021, 11:08pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

#### **Contact**

Simon Coller

#### **Email**

[simon.coller@npl.co.uk](mailto:simon.coller@npl.co.uk)

#### **Telephone**

+44 2089436485

#### **Country**

United Kingdom

**NUTS code**

UKI - LONDON

**Internet address(es)**

Main address

<http://www.npl.co.uk>

**I.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://lupc.bravosolution.co.uk/web/login.shtml?>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://lupc.bravosolution.co.uk/web/login.shtml?>

Tenders or requests to participate must be submitted to the above-mentioned address

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

Body governed by public law

**I.5) Main activity**

Other activity

UK National Measurement Institute

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

System for the Measurement of Multiple Semiconducting Qubits

#### **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**

NPL wishes to procure a metrology system for measuring superconducting circuits comprising multiple coupled qubits. It will include baseband/IF electronics and instrumentation and microwave instrumentation. It should be possible to control all components using a common software interface. The system must be designed so that it is highly customisable and can be easily expanded in the future.

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

Value excluding VAT: £313,000

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

This contract is divided into lots: Yes

Tenders may be submitted for all lots

Maximum number of lots that may be awarded to one tenderer: 2

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

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

Baseband/IF electronics and instrumentation (including arbitrary waveform generators, digitisers and associated instrumentation)

Lot No

Lot 1

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

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

**II.2.3) Place of performance**

NUTS codes

- UKI75 - Hounslow and Richmond upon Thames

Main site or place of performance

Teddington

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

Develop and supply an integrated solution including hardware and software, with guidance and remote support for the set-up, testing and commissioning of the system by NPL.

**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: £250,000

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

Start date

3 March 2021

End date

31 May 2021

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: No

## **II.2) Description**

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

Microwave instrumentation (including microwave generators and microwave switches)

Lot No

Lot 2

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

- 31711422 - Microwave equipment

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

NUTS codes

- UKI75 - Hounslow and Richmond upon Thames

Main site or place of performance

Teddington

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

Develop and supply an integrated solution including hardware and software, with guidance and remote support for the set-up, testing and commissioning of the system by NPL. The microwave generators will primarily be operated as local oscillators for IQ mixers.

### **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: £63,000

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

Start date

3 March 2021

End date

31 May 2021

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: No

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

#### **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

Manufacturers, distributors and other third-party suppliers are all eligible to bid. NPL will expect tenderers to have the necessary skill, experience and technical resources to undertake work to a high professional standard.

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## **Section IV. Procedure**

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

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

Open procedure

#### **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: [2020/S 158-386796](#)

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

Date

8 February 2021

Local time

12:00pm

#### **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: 3 (from the date stated for receipt of tender)

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

Date

8 February 2021

Local time

12:00pm

Place

Via the London Universities eSourcing Portal

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## **Section VI. Complementary information**

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

This is a recurrent procurement: No

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

Electronic payment will be used

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

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

NPL Management Ltd

Hampton Road

Teddington

TW11 0LW

Country

United Kingdom