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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): ocds-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

Telephone

+44 2089436485

Country

United Kingdom

NUTS code

UKI - LONDON

Internet address(es)

Main address

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

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

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.

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

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