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Tender

Procurement of a 350-1000 nm Tunable Pulsed Laser Source

National Physical Laboratory

F02: Contract notice

Notice identifier: 2023/S 000-034239

Procurement identifier (OCID): ocds-h6vhtk-041b35

Published 20 November 2023, 12:00pm

Section I: Contracting authority

I.1) Name and addresses

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

Contact

Nina Heath

Email

nina.heath@npl.co.uk

Country

United Kingdom

Region code

UK - United Kingdom

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/>

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/>

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

Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Procurement of a 350-1000 nm Tunable Pulsed Laser Source

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 National Physical Laboratory requirement is for the supply of a laser source continuously tunable over the 350-1000 nm wavelength range. The source is to be used to calibrate single-photon detectors (SPDs) in NPL's new traceable calibration facility.

The source is required to be pulsed at a variable repetition rate.

The pulse jitter must be short enough to allow timing jitter measurements of SPDs.

The pulse width must be short enough to enable measurement of the detection profiles of gated detectors.

The pulse-to-pulse energy variability must be low enough so that the intensity of individual pulses do not need to be measured, and the mean value represents a very good approximation to the energy of any individual pulse.

The technologies likely to fulfil these requirements are Optical Parametric Oscillators (OPOs) with a Second Harmonic Generator (SHG) module and a stable pump laser to allow a low pulse-to-pulse amplitude uncertainty, or an Optical Parametric Amplifier (OPA) with similar SHG and stable pump laser requirement.

The 350-1000 nm wavelength tuning range is required to be achieved without change of optics or re-alignment. A pulse repetition rate between 1 MHz and 100 kHz is required (10 MHz-100 kHz is desirable). The operational temperature range is at least from 15 C to 30 C.

II.1.5) Estimated total value

Value excluding VAT: £270,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

Main site or place of performance

Teddington, UK

II.2.4) Description of the procurement

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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: £270,000

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

End date

30 August 2024

This contract is subject to renewal

No

II.2.10) Information about variants

Variants will be accepted: Yes

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

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

Date

5 January 2024

Local time

5:00pm

IV.2.4) Languages in which tenders or requests to participate may be submitted

English

IV.2.7) Conditions for opening of tenders

Date

8 January 2024

Local time

9:00am

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

NPL Management

Teddington

Country

United Kingdom