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Contract

CAN - Optical Parametric Oscillator

National Physical Laboratory

F03: Contract award notice

Notice identifier: 2024/S 000-010928

Procurement identifier (OCID): ocds-h6vhtk-04216e

Published 4 April 2024, 12:42pm

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

Buyer's address

www.npl.co.uk

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Other activity

Scientific Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

CAN - Optical Parametric Oscillator

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.1.6) Information about lots

This contract is divided into lots: No

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

Value excluding VAT: £251,920

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

350-1000 nm Tunable Pulsed Laser Source

Qty: 1

II.2.5) Award criteria

Quality criterion - Name: Technical / Weighting: 80%

Price - Weighting: 20%

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.2.1) Previous publication concerning this procedure

Notice number: [2023/S 000-035654](#)

IV.2.9) Information about termination of call for competition in the form of a prior information notice

The contracting authority will not award any further contracts based on the above prior information notice

Section V. Award of contract

Title

350-1000 nm Tunable Pulsed Laser Source

A contract/lot is awarded: Yes

V.2) Award of contract

V.2.1) Date of conclusion of the contract

28 March 2024

V.2.2) Information about tenders

Number of tenders received: 2

Number of tenders received from tenderers from other EU Member States: 2

Number of tenders received by electronic means: 2

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

V.2.3) Name and address of the contractor

Coherent Europe B.V.

Huis ter Heideweg 14

Zeist

3705 LZ

Country

Netherlands

NUTS code

- NL - Netherlands

The contractor is an SME

No

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

Total value of the contract/lot: £251,920

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

Country

United Kingdom