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Award

Quantum Cascade Laser Analyser for Greenhouse Gases and Air Pollutants

National Physical Laboratory

F15: Voluntary ex ante transparency notice

Notice identifier: 2023/S 000-021940

Procurement identifier (OCID): ocds-h6vhtk-03eb22

Published 28 July 2023, 10:25am

Section I: Contracting authority/entity

I.1) Name and addresses

National Physical Laboratory

Hampton Road

Teddington

TW11 0LW

Email

charley.choules@npl.co.uk

Country

United Kingdom

Region code

UK - United Kingdom

Internet address(es)

Main address

www.npl.co.uk

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

Quantum Cascade Laser Analyser for Greenhouse Gases and Air Pollutants

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

A rack mounted quantum cascade laser instrument capable of high precision (

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: 205,274 CHF

II.2) Description

II.2.3) Place of performance

NUTS codes

- UK - United Kingdom

II.2.4) Description of the procurement

Multicomponent quantum cascade laser analyser with ≥ 1 Hz data acquisition rate that allows the simultaneous measurement of carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), carbon monoxide (CO), ammonia (NH₃), nitrogen monoxide (NO), nitrogen dioxide (NO₂), sulphur dioxide (SO₂) with the following amount fractions ranges and one sigma (1 σ) precisions:

Carbon dioxide (amount fraction range: 0 – 5000 $\mu\text{mol mol}^{-1}$; precision 25 nmol mol⁻¹), methane (amount fraction range: 0 – 30 $\mu\text{mol mol}^{-1}$; precision 0.22 nmol mol⁻¹), nitrous oxide (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 0.1 nmol mol⁻¹), carbon monoxide (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 0.01 nmol mol⁻¹), ammonia (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 0.5 nmol mol⁻¹), nitrogen monoxide (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 1 % or 1 nmol mol⁻¹, whichever is greater), nitrogen dioxide (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 1 % or 1 nmol mol⁻¹, whichever is greater) and sulphur dioxide (amount fraction range: 0 – 10 $\mu\text{mol mol}^{-1}$; precision 1 % or 1 nmol mol⁻¹, whichever is greater).

The instrument shall have a flow rate of 0.5 – 1.5 slpm, a leak rate of $\leq 10^{-9}$ mbar xl/s and response time of

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

Award of a contract without prior publication of a call for competition in the cases listed below

- The procurement falls outside the scope of application of the regulations

Explanation:

Miro Analytical AG is the only vendor that can provide an analytical solution that enables the simultaneous measurement of all the major greenhouse gases (CO₂, CH₄, N₂O and CO) and air quality pollutants (NO, NO₂, SO₂ and NH₃) with the required high precision and broad amount fraction ranges that are required.

Unique features include:

1. The ability to measure all these compounds simultaneously due to a unique dual colour laser system.
2. The achieved precisions with this analyser match or exceed other optical spectrometers that are typically measuring one or two compounds.
3. The range of amount fractions that are possible to measure exceed those typical of other optical spectrometers that are measuring one or two compounds.

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: No

Section V. Award of contract/concession

Title

Quantum Cascade Laser Analyser for Greenhouse Gases and Air Pollutants

A contract/lot is awarded: Yes

V.2) Award of contract/concession

V.2.1) Date of conclusion of the contract

28 July 2023

V.2.2) Information about tenders

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

V.2.3) Name and address of the contractor/concessionaire

Miro Analytical AG

Widenholzstrasse 1, CH-8304 Wallisellen, Switzerland

Wallisellen

CH-8304

Country

Switzerland

NUTS code

- CH - Switzerland

The contractor/concessionaire is an SME

No

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

Total value of the contract/lot/concession: 205,274 CHF

V.2.5) Information about subcontracting

The contract/lot/concession is likely to be subcontracted

Section VI. Complementary information

VI.4) Procedures for review

VI.4.1) Review body

NPL Management Ltd

Hampton Road

Teddington

TW11 0LW

Country

United Kingdom